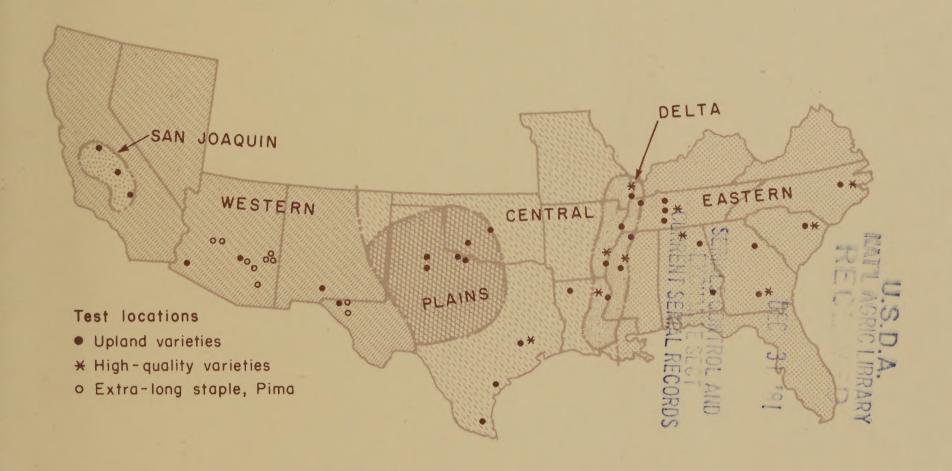
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Regional Cotton Variety Tests, 1978 Yield, Boll, and Spinning Data



Science and Education Administration U.S. Department of Agriculture



REGIONAL COTTON VARIETY TESTS, 1978

Yield, Boll, and Spinning Data

Compiled by H. H. Ramey, Jr., research geneticist, and N. J. Acres, statistical assistant, Cotton Quality Laboratories, Science and Education Administration, in cooperation with the agricultural experiment stations of Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas

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1968	U.S.	Agricultural	Research	Service	[Report]	ARS	34-113			
1969	11	11	11	11.	11		34-123			
1970	11	11	11	11	11	ARS	34-130			
1971	11	11	11	11	11	ARS-	-S-33			
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This report contains yield, boll, and spinning data. Fiber and seed data are not available at this time.

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INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a system for uniform reporting of data from cotton-yield trials across the U.S. Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State agricultural experiment stations. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year cycle of testing. For the seventh 3-year cycle, beginning in 1978, the national standards are Acala SJ-5, Coker 310, Paymaster 303, and Stoneville 213. Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. Each station may add entries of local interest, but only data on the national and regional standards are included in this report. All varieties are grown to obtain experimental data, and the designation of national or regional standards is not an endorsement of the varieties by the U.S. Department of Agriculture or the cooperating State agricultural experiment stations.

Plot size, cultural practices, number of entries, and sampling methods are left to the discretion of the participating stations. While the details are not rigidly standardized, all tests are conducted by experienced personnel using sound experimental designs and procedures. Yield, boll size, lint percentage, and seed index are supplied by the cooperating stations. Fiber samples are sent to the Cotton Quality Laboratories, Science and Education Administration, Knoxville, Tenn., where fiber and yarn tests are made. (Fiber data for 1978 samples are not yet available and do not appear in this report.) All data are assembled in the Cotton Quality Laboratories, and the data are analyzed at the University of Tennessee Computer Center.

In 1978 the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were grown in all six regions. Strains developed in the Southern States with superior fiber properties and spinning performance were tested in three contiguous regions (high-quality test). Extra-long-staple American Pima varieties were tested in the Western Region.

The regional tests and participating stations during the 1978 season were:

Eastern Regional Cotton Variety Test (Upland Varieties)

Alabama Agricultural Experiment Station
Sand Mountain Substation
Georgia Coastal Plain Experiment Station
Georgia College Experiment Station
Pee Dee Experiment Station
Upper Coastal Plain Experiment Station
West Tennessee Agricultural Experiment Station
Ames Plantation
Milan Field Station

Auburn, Ala.
Crossville, Ala.
Tifton, Ga.
Athens, Ga.
Florence, S.C.
Rocky Mount, N.C.
Jackson, Tenn.
Grand Junction, Tenn.
Milan, Tenn.

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station:
Delta Substation
Southeast Branch Experiment Station
Mississippi Agricultural and Forestry Experiment Station:
Delta Branch

Clarkedale, Ark. Rohwer, Ark.

Stoneville, Miss.

Off-station test
Missouri Agricultural Experiment Station, Delta Center
Northeast Louisiana Experiment Station
West Tennessee Agricultural Experiment Station,
off-station test

Tunica, Miss.
Portageville, Mo.
St. Joseph, La.

Ridgely, Tenn.

Central Regional Cotton Variety Test (Upland Varieties)

Red River Valley Experiment Station Texas A&M University: Bossier City, La.

Agricultural Research and Extension Center Agricultural Research Station, off-station test Texas Agricultural Experiment Station

Weslaco, Tex.
Nueces County, Tex.
College Station, Tex.

Plains Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station: Cotton Research Station (irrigated test) Irrigation Experiment Station

Chickasha, Okla. Altus, Okla.

Texas A&M University:

Agricultural Research and Extension Center

(Chillicothe):

Dryland test Irrigated test Chillicothe, Tex. Chillicothe, Tex.

Agricultural Research and Extension Center

(Lubbock):

Irrigated test
Off-station test

Lubbock, Tex. Halfway, Tex.

Western Regional Cotton Variety Test (Upland Varieties)

Arizona Agricultural Experiment Station:
Cotton Research Center
Yuma Valley Station

Yuma Valley Station
New Mexico Agricultural Experiment Station
Texas A&M University Agricultural Research Center

Phoenix, Ariz. Yuma, Ariz. Las Cruces, N. Mex. El Paso, Tex.

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

California Agricultural Experiment Station:
West Side Field Station
Off-station tests:

Five Points, Calif. Madera, Calif. Maricopa, Calif.

High-Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station, Tennessee Valley Substation

Arkansas Agricultural Experiment Station,

Southeast Branch

Georgia Coastal Plain Experiment Station

Mississippi Agricultural and Forestry Experiment Station,

Delta Branch

Belle Mina, Ala.

Rohwer, Ark. Tifton, Ga.

Stoneville, Miss.

Missouri Agricultural Experiment Station. Delta Center Northeast Louisiana Experiment Station Pee Dee Experiment Station Texas Agricultural Experiment Station Upper Coastal Plain Experiment Station West Tennessee Agricultural Experiment Station

Portageville, Mo. St. Joseph, La. Florence, S.C. College Station, Tex. Rocky Mount, N.C. Jackson, Tenn.

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station:

Cotton Research Center Off-station tests:

Marana Experimental Farm, off-station test Safford Branch Station Off-station tests: Curtis farm Lavton farm

Texas A&M University:

Agricultural Research Center Off-station test, Maros farm Phoenix, Ariz. Coolidge, Ariz. Salome, Ariz. Wenden, Ariz. Marana, Ariz. Safford, Ariz.

Safford, Ariz. Safford, Ariz.

El Paso, Tex. Fabens, Tex.

Combed-Yarn Test (American Pima Varieties)

American Pima cottons are commonly spun into combed yarns. In addition to the data taken at Knoxville, Tenn., combed-yarn tests of Pima cotton grown at four locations conducting the Pima Regional Cotton Variety Test were made by the Agricultural Marketing Service, U.S. Department of Agriculture, at its Clemson, S.C., laboratory. Classer's grade and staple, yarn tenacity of 11.8- and 7.4-tex (50's and 80's cotton count) yarns, appearance index, imperfections per 50 metres, and waste percentages are reported.

TEST RESULTS

No interpretation of the test results other than the indication of the significant differences among means based on an analysis of variance is presented. Means followed by the same letter or letters cannot be considered significantly different at the 0.05 level of probability, as determined by Duncan's multiple-range test. A randomized-block design was used for all analyses, although some tests were planted in lattice designs.

The yield reported for each variety is the average derived from the number of replications used. From three to eight replications were planted, depending on the station, and six replications were more commonly used. Boll size, lint percentage, seed index, and fiber and yarn data are based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first two tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield. For some tests, subregional summaries are also included. Following these tables average data for each location in the region are given, each table being arranged by variety in decreasing order of lint yield.

The column headings and symbols are defined as follows:

Boll size. The mass, in grams per boll, of seed cotton.

<u>Classer's designation</u>. A description of the quality of cotton in terms of grade and staple according to the official cotton standards of the United States. For grade, classification is based on appearance and is accomplished chiefly through the sense of sight by integration of the three factors of grade--color, leaf, and preparation--in the sample. Classification for <u>staple</u> length involves both sight and touch and is made by pulling out and comparing a typical portion of fiber from a sample with the official staple types.

Colorimeter. These measurements were determined by the Nickerson-Hunter colorimeter (Spinlab model). Hunter's b value is a measure of increasing yellowness of the cotton. \underline{R}_d is the percentage of the reflectance; the higher the value, the lighter the cotton.

<u>Lint percent</u>. The mass of lint ginned from a sample of seed cotton, expressed as a percentage of the mass of seed cotton.

Lint yield. The mean production of the plots harvested, expressed in pounds of lint per acre.

Micronaire. The fineness of the sample taken from the ginned lint measured by the Micronaire and expressed in standard (curvilinear scale) micronaire units.

Seed index. The mass of 100 seeds, in grams.

<u>Span length</u>. Fiber length measured on the Digital Fibrograph. The distance spanned by a specified percentage of the fibers in the test specimen, where the initial starting point of the scanning in the test is considered 100 percent. The <u>2.5-percent span length</u> is the length, in inches, on the test specimen spanned by 2.5 percent of the fibers scanned at the initial starting point. The <u>2.5-percent span length</u> approximates classer's staple. The <u>50-percent span length</u> is the length, in inches, on the test specimen spanned by 50 percent of the fibers scanned at the initial starting point.

 $\underline{\text{Tex}}$. The linear density of fibers, filaments, and yarns expressed as the mass, in milligrams, of 1 metre of fiber or yarn.

<u>Waste</u>. The difference in mass, expressed as a percentage, of the fed stock and delivered stock. <u>Picker and card</u> waste is the loss in mass during opening, picking, and carding. <u>Comber</u> waste is the loss in mass during combing.

<u>Yarn appearance index</u>. The relative evenness, smoothness, and freedom from foreign material of the yarn as evaluated by a visual comparison of the yarn with the standards adopted by the American Society for Testing and Materials. Higher numbers indicate more even and smooth yarns with less foreign material.

Yarn imperfections. The abrupt changes in the silhouette of the yarn while passing through a beam of light, expressed as the number of such changes per 50 metres of yarn.

Yarn tenacity. The strength of the yarn, expressed in centinewtons per tex (cN/tex).

EASTERN REGIONAL COTTON VARIETY TEST

Table 1.--Eastern test: Yield, boll, and spinning data by cotton variety

riety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Wair 235	904 a	5.57 defg	39.6 de	10.3 h	4.68 cd
ter 304	827 ab	5.63 def	39.8 cd	10.5 fgh	4.66 d
oneville 213	824 ab	5.42 g	39.0 ef	10.7 defg	4.98 ab
oneville 825N	824 ab	5.41 g	39.4 de	10.9 cde	4.94 b
oneville 603	812 ab	5.45 fg	39.0 efg	10.5 fgh	4.80 c
tapine 26	810 ab	5.23 h	41.3 a	10.4 fgh	5.06 ab
oneville 731N	810 ab	5.55 defg	39.8 cd	10.8 cde	5.08 a
tapine 61	807 ab	5.50 defg	39.1 e	10.7 cdef	4.98 ab
tapine 55	801 abc	5.15 h	41.3 a	9.6 i	4.53 de
ter 315	799 abc	5.48 efg	40.7 ab	10.4 gh	4.80 c
lair 220	797 abc	5.67 cde	38.9 efgh	10.6 efgh	4.67 cd
er 310	796 abc	5.67 cd	40.4 bc	10.6 efgh	4.66 d
21	789 abc	5.09 h	39.6 de	11.0 bcd	4.48 def
tie King 3	783 abc	6.04 b	38.5 fgh	11.1 bc	4.45 ef
ter 420	778 c	5.41 g	38.3 hi	10.6 efgh	4.67 d
master 303	675 c	6.23 a	37.8 i	11.5 a	4.44 ef
master 303					
la SJ-5	509 d	5.81 c	38.4 ghi	11.2 ab	4.38 f
	509 d Span length (2.5%		$\frac{38.4 \text{ ghi}}{\text{Colorin}}$		Yarn tenacity (cN/tex)
la SJ-5	Span length (2.5%	inches) 50%	Coloring R_d	meter Hunter's b value 8.9 ef	Yarn tenacity (cN/tex)
lair 235	Span length (2.5% 1.11 c 1.15 a	0.52 bc .52 b	Colorin $\frac{R}{d}$ 74.8 abcd 73.7 e	Meter Hunter's b value 8.9 ef 9.2 bcd	Yarn tenacity (cN/tex) 12.1 de 12.0 de
Mair 235	Span length (2.5% 1.11 c 1.15 a 1.09 c	0.52 bc .52 b .51 bc	Coloring R_d 74.8 abcd 73.7 e 74.6 abcde	Hunter's b value 8.9 ef 9.2 bcd 9.5 a	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f
Jair 235 er 304 oneville 213 oneville 825N	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c	0.52 bc .52 b .51 bc .51 bc	Coloring R_d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc	Meter Hunter's b value 8.9 ef 9.2 bcd 9.5 a 9.1 bcde	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef
Tair 235 Ser 304 Ser 304 Ser 213 Ser 213 Ser 304 Ser 305 Ser 305 Ser 306 Ser 307 Ser 307 Ser 307 Ser 308 Ser	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c	0.52 bc .52 b .51 bc .51 bc	Coloring R d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de	Meter Hunter's b value 8.9 ef 9.2 bcd 9.5 a 9.1 bcde 9.3 ab	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef
lair 235	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc	Colorin R d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a	### Notes	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef
dair 235	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.10 c	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c	Coloring R d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a	### Note	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg
Tair 235	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c 1.13 bc	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c .53 b	Coloring Rd 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a 75.3 ab	### Note	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg 11.7 ef
Tair 235 Ter 304 The provided a serior of the serior of t	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c 1.10 c 1.11 c	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c .53 b .52 bc	Coloring R_d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a 75.3 ab 74.8 abcd	Meter Hunter's b value 8.9 ef 9.2 bcd 9.5 a 9.1 bcde 9.3 ab 9.3 abc 9.3 ab 9.2 bc 9.2 bc	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg 11.7 ef 11.9 e
Tair 235 Ter 304 Teneville 213 Teneville 825N Teneville 603 Tapine 26 Tapine 61 Tapine 55 Tapine 55	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c 1.10 c 1.11 c 1.15 a	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c .53 b .52 bc .54 ab	Coloring R_d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a 75.3 ab 74.8 abcd 73.8 e	8.9 ef 9.2 bcd 9.5 a 9.1 bcde 9.3 ab 9.3 abc 9.3 ab 9.2 bc 9.2 bc 9.3 abc	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg 11.7 ef 11.9 e 12.2 de
Jair 235	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c 1.10 c 1.11 c 1.10 c 1.11 c 1.11 c	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c .53 b .52 bc .54 ab .52 bc	Coloring R_d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a 75.3 ab 74.8 abcd 73.8 e 74.4 bcde	8.9 ef 9.2 bcd 9.5 a 9.1 bcde 9.3 ab 9.3 abc 9.3 ab 9.2 bc 9.3 ab 9.2 bc 9.3 ab 9.4 bc 9.5 a	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg 11.7 ef 11.9 e 12.2 de 12.2 de
Tair 235 Ter 304 The provided a ser 315 The provided a ser 310	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c 1.10 c 1.13 bc 1.12 c 1.15 a 1.11 c 1.14 ab	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c .53 b .52 bc .54 ab .52 bc	Coloring R d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a 75.3 ab 74.8 abcd 73.8 e 74.4 bcde 74.0 de	### Notes	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg 11.7 ef 11.9 e 12.2 de 12.2 de 12.3 d
Jair 235	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c 1.10 c 1.11 c 1.10 c 1.13 bc 1.12 c 1.15 a 1.11 c 1.14 ab 1.14 ab	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c .53 b .52 bc .54 ab .52 bc .53 b	Colorin R d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a 75.3 ab 74.8 abcd 73.8 e 74.4 bcde 74.0 de 75.6 a	8.9 ef 9.2 bcd 9.5 a 9.1 bcde 9.3 ab 9.3 abc 9.3 ab 9.2 bc 9.3 ab 9.2 bc 9.3 bc 9.1 bcde 9.3 ab 9.2 bc 9.3 abc 9.3 abc	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg 11.7 ef 11.9 e 12.2 de 12.2 de 12.3 d 13.0 b
Tair 235 Therefore 304 Therefore 213 Therefore 603 Therefore 26 Therefore 61 Therefore 55 Therefore 315 Therefore 315 Therefore 315 Therefore 310	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c 1.10 c 1.13 bc 1.12 c 1.15 a 1.11 c 1.14 ab 1.14 ab 1.10 c	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c .53 b .52 bc .54 ab .52 bc .53 b .52 bc	Coloring R d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a 75.3 ab 74.8 abcd 73.8 e 74.4 bcde 74.0 de 75.6 a 74.4 bcde	Meter Hunter's b value 8.9 ef 9.2 bcd 9.5 a 9.1 bcde 9.3 ab 9.3 abc 9.3 ab 9.2 bc 9.3 ab 9.2 bc 9.3 abc 8.9 def 9.1 bcde 8.8 f 9.1 bcde	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg 11.7 ef 11.9 e 12.2 de 12.2 de 12.3 d 13.0 b 12.0 de
Jair 235	Span length (2.5% 1.11 c 1.15 a 1.09 c 1.11 c 1.10 c 1.11 c 1.10 c 1.13 bc 1.12 c 1.15 a 1.11 c 1.14 ab 1.14 ab 1.14 ab 1.15 a	0.52 bc .52 b .51 bc .51 bc .51 bc .52 bc .50 c .53 b .52 bc .54 ab .52 bc .53 b	Colorin R d 74.8 abcd 73.7 e 74.6 abcde 75.1 abc 74.1 de 75.5 a 75.5 a 75.3 ab 74.8 abcd 73.8 e 74.4 bcde 74.0 de 75.6 a	8.9 ef 9.2 bcd 9.5 a 9.1 bcde 9.3 ab 9.3 abc 9.3 ab 9.2 bc 9.3 ab 9.2 bc 9.3 bc 9.1 bcde 9.3 ab 9.2 bc 9.3 abc 9.3 abc	Yarn tenacity (cN/tex) 12.1 de 12.0 de 11.3 f 11.5 ef 11.6 ef 11.7 ef 11.2 fg 11.7 ef 11.9 e 12.2 de 12.2 de 12.3 d 13.0 b

Table 2.--Eastern test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Florence, SC Crossville, AL	1427 a 1008 b	6.30 a 5.25 d	39.6 b	11.0 b 11.0 bc	4.90 b 4.06 f
Ames Plantation, TN	960 c	5.62 c	39.5 b	10.8 cd	4.86 b
Jackson, TN	937 c	5.79 b	38.3 cd	10.8 bcd	5.23 a
Milan, TN	876 d	5.33 d	38.6 c	10.1 e	4.37 d
Tifton, GA	652 e	5.27 d	37.5 e	10.9 bc	4.75 c
Rocky Mt., NC	649 e	5.54 c	44.3 a	9.4 f	5.22 a
Auburn, AL	394 f	4.97 e	37.9 de	11.4 a	4.24 e
Athens, GA	170 g	5.85 b	39.8 b	10.7 d	4.83 Ъ
Athens, or	170 8				
Athens, da	Span length (Color	imeter	Yarn
Athens, da			$\frac{Color}{R_d}$	imeter Hunter's	Yarn tenacity
	Span length ((inches)	Color R_d	Hunter's	
Florence, SC Crossville, AL	Span length ((inches) 50%	R_d	Hunter's b	tenacity
Florence, SC	Span length (2.5% 1.12 d	(inches) 50% 0.52 bcd	77.4 a	Hunter's b 9.4 b	tenacity 11.7 de
Florence, SC Crossville, AL	Span length (2.5% 1.12 d 1.14 b	(inches) 50% 0.52 bcd .51 d	77.4 a 72.1 e	Hunter's b 9.4 b 9.2 bc	tenacity 11.7 de 11.9 cd
Florence, SC Crossville, AL Ames Plantation, TN	Span length (2.5% 1.12 d 1.14 b 1.13 cd	(inches) 50% 0.52 bcd .51 d .53 b	77.4 a 72.1 e 75.1 c	Hunter's b 9.4 b 9.2 bc 9.0 cd	11.7 de 11.9 cd 12.0 cd
Florence, SC Crossville, AL Ames Plantation, TN Jackson, TN Milan, TN Tifton, GA	Span length (2.5% 1.12 d 1.14 b 1.13 cd 1.10 e 1.09 e 1.14 bc	(inches) 50% 0.52 bcd .51 d .53 b .53 bc .49 e .52 cd	77.4 a 72.1 e 75.1 c 72.2 e 75.8 b 75.0 c	9.4 b 9.2 bc 9.0 cd 9.7 a 9.0 cd 8.4 e	11.7 de 11.9 cd 12.0 cd 11.9 cd 11.8 cd 12.0 c
Florence, SC Crossville, AL Ames Plantation, TN Jackson, TN Milan, TN Tifton, GA Rocky Mt., NC	Span length (2.5% 1.12 d 1.14 b 1.13 cd 1.10 e 1.09 e 1.14 bc 1.03 f	0.52 bcd .51 d .53 b .53 bc .49 e .52 cd .50 e	77.4 a 72.1 e 75.1 c 72.2 e 75.8 b 75.0 c 74.0 d	Hunter's b 9.4 b 9.2 bc 9.0 cd 9.7 a 9.0 cd 8.4 e 8.9 d	11.7 de 11.9 cd 12.0 cd 11.9 cd 11.8 cd 12.0 c 11.6 e
Florence, SC Crossville, AL Ames Plantation, TN Jackson, TN Milan, TN Tifton, GA	Span length (2.5% 1.12 d 1.14 b 1.13 cd 1.10 e 1.09 e 1.14 bc	(inches) 50% 0.52 bcd .51 d .53 b .53 bc .49 e .52 cd	77.4 a 72.1 e 75.1 c 72.2 e 75.8 b 75.0 c	9.4 b 9.2 bc 9.0 cd 9.7 a 9.0 cd 8.4 e	11.7 de 11.9 cd 12.0 cd 11.9 cd 11.8 cd 12.0 c

Table 3.--Eastern test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 26	1583 a	6.06	41.5	10.5	5.25
Deltapine 61	1562 a	6.20	40.5	11.7	5.10
Coker 315	1562 a	6.03	41.8	10.3	5.00
Coker 420	1561 a	6.01	39.2	9.8	4.95
S.C1	1555 a	5.98	39.3	11.6	4.65
McNair 235	1553 a	6.12	39.4	10.7	4.90
Coker 304	1537 ab	6.22	40.4	11.2	4.85
McNair 220	1517 ab	6.16	38.6	10.7	4.60
Coker 310	1504 ab	6.38	39.8	10.5	4.95
Deltapine 55	1495 ab	6.28	42.1	10.2	4.55
Stoneville 825N	1459 ab	6.20	39.2	11.3	5.20
Stoneville 213	1439 ab	6.21	39.2	10.9	5.20
Stoneville 603	1398 ab	6.17	37.4	12.2	4.80
Stoneville 731N	1393 ab	6.24	39.7	10.9	5.50
Dixie King 3	1358 b	7.17	39.0	11.7	4.70
Paymaster 303	1170 c	7.20	37.8	12.0	4.70
Acala SJ-5	607 d	6.48	38.6	11.5	4.45
acara oo s				rimeter	Yarn
	Span length (
	Span length (inches) 50%	$\frac{\text{Color}}{R_d}$	rimeter Hunter's b value	Yarn tenacity (cN/tex)
Deltapine 26	Span length (2.5%	inches) 50%	Color R _d	rimeter Hunter's b value	Yarn tenacity (cN/tex)
Deltapine 26 Deltapine 61	Span length (2.5% 1.10 1.11	0.50 .53	77.6 78.9	rimeter Hunter's b value	Yarn tenacity (cN/tex)
Deltapine 26 Deltapine 61 Coker 315	Span length (2.5% 1.10 1.11 1.14	0.50 .53	77.6 78.9 75.1	Hunter's b value 9.5 9.1	Yarn tenacity (cN/tex) 11.5 11.3 11.4
Deltapine 26 Deltapine 61 Coker 315	Span length (2.5% 1.10 1.11 1.14 1.17	0.50 .53 .51	77.6 78.9 75.1 76.5	Hunter's b value 9.5 9.1 9.4 9.4	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5
Deltapine 26 Deltapine 61 Coker 315 Coker 420	Span length (2.5% 1.10 1.11 1.14 1.17 1.13	0.50 .53 .51 .56	77.6 78.9 75.1 76.5 78.3	9.5 9.1 9.4 9.4 9.1	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0
Deltapine 26 Deltapine 61 Coker 315 Coker 420 S.C1	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09	0.50 .53 .51 .56 .55	77.6 78.9 75.1 76.5 78.3 78.1	9.5 9.1 9.4 9.1 9.2	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2
Deltapine 26 Deltapine 61 Coker 315 Coker 420 S.C1 McNair 235	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19	0.50 .53 .51 .56 .55 .50	77.6 78.9 75.1 76.5 78.3 78.1 76.3	9.5 9.1 9.4 9.4 9.1 9.2 9.3	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6
Deltapine 26 Deltapine 61 Coker 315 Coker 420 S.C1 McNair 235 Coker 304	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19 1.12	0.50 .53 .51 .56 .55 .50	77.6 78.9 75.1 76.5 78.3 78.1 76.3 78.0	9.5 9.1 9.4 9.1 9.2 9.3	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6 12.3
Deltapine 26 Deltapine 61 Coker 315 Coker 420 S.C1 McNair 235 Coker 304 McNair 220 Coker 310	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19 1.12 1.16	0.50 .53 .51 .56 .55 .50 .56	77.6 78.9 75.1 76.5 78.3 78.1 76.3 78.0 76.6	9.5 9.1 9.4 9.4 9.1 9.2 9.3 9.1	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6 12.3 11.8
Deltapine 26 Deltapine 61 Coker 315 Coker 420 S.C1 McNair 235 Coker 304 McNair 220 Coker 310 Deltapine 55	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19 1.12 1.16 1.15	0.50 .53 .51 .56 .55 .50 .56	77.6 78.9 75.1 76.5 78.3 78.1 76.3 78.0 76.6 78.0	9.5 9.1 9.4 9.1 9.2 9.3	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6 12.3
Deltapine 26 Deltapine 61 Coker 315 Soker 420 McNair 235 McNair 235 Coker 304 McNair 220 Coker 310 Deltapine 55 Stoneville 825N	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19 1.12 1.16 1.15 1.13	0.50 .53 .51 .56 .55 .50 .56 .54 .53	77.6 78.9 75.1 76.5 78.3 78.1 76.3 78.0 76.6 78.0 78.8	9.5 9.1 9.4 9.4 9.1 9.2 9.3 9.1	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6 12.3 11.8 12.2
Deltapine 26 Deltapine 61 Coker 315 S.C1 McNair 235 Coker 304 McNair 220 Coker 310 Deltapine 55 Stoneville 825N	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19 1.12 1.16 1.15 1.13 1.10	0.50 .53 .51 .56 .55 .50 .56 .54 .53 .55	77.6 78.9 75.1 76.5 78.3 78.1 76.3 78.0 76.6 78.0 78.8 76.8	9.5 9.1 9.4 9.4 9.1 9.2 9.3 9.1 9.6 9.6 9.6	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6 12.3 11.8 12.2 11.3 11.0
Deltapine 26 Deltapine 61 Coker 315 S.C1 McNair 235 Coker 304 McNair 220 Coker 310 Deltapine 55 Stoneville 825N Stoneville 603	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19 1.12 1.16 1.15 1.13 1.10 1.10	0.50 .53 .51 .56 .55 .50 .56 .54 .53 .55 .53	77.6 78.9 75.1 76.5 78.3 78.1 76.3 78.0 76.6 78.0 76.6 78.0 78.8 76.8 76.8	9.5 9.5 9.1 9.4 9.4 9.1 9.2 9.3 9.1 9.6 9.6 9.6 9.4	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6 12.3 11.8 12.2 11.3 11.0 11.4
Deltapine 26 Deltapine 61 Coker 315 Scoker 420 McNair 235 McNair 235 Coker 304 McNair 220 Stoneville 825N Stoneville 603 Stoneville 731N	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19 1.12 1.16 1.15 1.13 1.10 1.13	0.50 .53 .51 .56 .55 .50 .56 .54 .53 .55 .53	77.6 78.9 75.1 76.5 78.3 78.1 76.3 78.0 76.6 78.0 76.6 78.0 78.8 76.8 78.2 78.9	9.5 9.1 9.4 9.4 9.1 9.2 9.3 9.1 9.6 9.6 9.6 9.8 9.5 9.3	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6 12.3 11.8 12.2 11.3 11.0 11.4 11.2
Deltapine 26 Deltapine 61 Coker 315 S.C1 McNair 235 McNair 220 McNair 220 Stoneville 825N Stoneville 825N Stoneville 603 Stoneville 731N Dixie King 3 Paymaster 303	Span length (2.5% 1.10 1.11 1.14 1.17 1.13 1.09 1.19 1.12 1.16 1.15 1.13 1.10 1.10	0.50 .53 .51 .56 .55 .50 .56 .54 .53 .55 .53	77.6 78.9 75.1 76.5 78.3 78.1 76.3 78.0 76.6 78.0 76.6 78.0 78.8 76.8 76.8	9.5 9.5 9.1 9.4 9.4 9.1 9.2 9.3 9.1 9.6 9.6 9.6 9.4	Yarn tenacity (cN/tex) 11.5 11.3 11.4 12.5 13.0 11.2 11.6 12.3 11.8 12.2 11.3 11.0 11.4

Table 4.--Eastern test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 235	1190 a	5.85	39.1	10.6	5.35
McNair 220	1063 b	6.15	37.9	10.7	5.10
Dixie King 3	1054 bc	6.54	37.0	11.4	4.85
Stoneville 213	1007 bcd	5.70	38.3	10.8	5.50
Stoneville 603	988 bcde	5.40	38.4	10.2	5.25
Coker 304	977 bcde	5.72	38.7	10.8	5.30
Stoneville 731N	973 bcde	5.51	38.8	10.7	5.50
Stoneville 825N	957 bcdef	5.53	37.5	11.2	5.50
Deltapine 26	953 cdef	5.38	38.9	10.7	5.55
Coker 310	951 cdef	6.13	38.3	10.8	5.10
S.C1	933 def	5.40	38.8	11.8	5.10
Coker 315	906 def	5.96	38.7	10.6	5.35
Deltapine 55	890 ef	5.31	41.0	9.3	5.10
Deltapine 61	852 f g	5.68	37.3	11.6	5.45
Acala SJ-5	783 gh	6.30	38.1	11.6	4.85
Coker 420	732 h	5.57	37.2	10.8	5.10
Paymaster 303	719 h	6.41	37.3	11.2	5.10
	Span length (inches	Color	rimeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
			α	b value	(cN/tex)
McNair 235	1.12	0.55	73.1	9.7	12.6
McNair 220	1.11	. 55	72.3	9.5	12.5
Dixie King 3	1.09	.52	71.9	9.8	11.4
Stoneville 213	1.08	.51	72.7	10.1	11.3
Stoneville 603	1.08	.51	71.2	10.0	11.3
Coker 304	1.10	.50	68.8	10.0	11.6
Stoneville 731N	1.06	.49	73.6	9.8	11.0
Stoneville 825N	1.09	.51	74.9	9.7	11.2
Deltapine 26	1.09	.52	73.2	9.6	11.3
Coker 310	1.10	.53	71.1	9.5	12.4
S.C1	1.15	.58	73.2	9.0	13.1
Coker 315	1.15	. 54	70.9	9.8	11.7
Deltapine 55	1.10	.53	71.1	10.1	11.2
Deltapine 61	1.15	.58	73.4	9.6	11.8
Acala SJ-5	1.10	.55	72.9	9.0	14.8
Coker 420	1.14	.56	71.9	9.8	13.1
Paymaster 303	1.04	. 49	71.2	9.8	10.5

Table 5.--Eastern test: Yield, boll, and spinning data for Crossville, Ala.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
McNair 235	1153 a	5.45	39.5	11.2	4.15
Coker 304	1103 ab	5.45	40.7	10.6	4.20
Coker 310	1080 abc	5.22	40.6	10.6	4.10
Stoneville 825N	1074 abc	5.22	39.6	10.8	4.00
Coker 315	1062 abc	5.22	41.5	10.2	4.15
toneville 731N	1050 abc	5.45	39.7	11.5	4.30
oker 420	1038 abc	5.22	40.1	10.6	4.10
toneville 213	1009 abc	5.22	39.0	11.8	4.45
Deltapine 61	963 bc	4.99	37.8	10.8	4.10
Stoneville 603	961 bc	4.77	38.4	10.2	3.65
Oeltapine 26	955 bc	4.77	41.0	11.2	4.25
S.C1	951 bc	5.00	39.6	10.9	3.80
eltapine 55	951 bc	4.77	40.2	10.7	3.75
aymaster 303	950 bc	5.90	38.6	12.0	4.10
ixie King 3	950 bc	5.90	38.6	11.0	3.70
icala SJ-5	937 bc	5.22	39.0	11.3	4.15
AcNair 220	925 c	5.45	39.1	11.5	4.20
	Span length (2.5%	inches) 50%	$\frac{Color}{R_{d}}$	Hunter's b value	Yarn tenacity (cN/tex)
McNair 235		0.53	72.0	Hunter's b value	tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
oker 304	1.15	0.53	72.0	Hunter's b value	tenacity (cN/tex)
oker 304 oker 310	1.15	0.53	72.0 71.3	Hunter's b value 9.0 9.2	tenacity (cN/tex) 12.6 11.8
oker 304 oker 310 toneville 825N	1.15 1.16 1.18	0.53 .52 .54	72.0 71.3 72.5	Hunter's b value 9.0 9.2 9.1	tenacity (cN/tex) 12.6 11.8 12.5
oker 304 oker 310 toneville 825N oker 315	1.15 1.16 1.18 1.15	0.53 .52 .54 .51	72.0 71.3 72.5 72.0	Hunter's b value 9.0 9.2 9.1 8.8	12.6 11.8 12.5 11.6
oker 304	1.15 1.16 1.18 1.15 1.18	0.53 .52 .54 .51	72.0 71.3 72.5 72.0 70.5	Hunter's b value 9.0 9.2 9.1 8.8 9.4	12.6 11.8 12.5 11.6 11.8
oker 304	1.15 1.16 1.18 1.15 1.18 1.10 1.15	0.53 .52 .54 .51 .54 .47	72.0 71.3 72.5 72.0 70.5 72.7	Hunter's b value 9.0 9.2 9.1 8.8 9.4 8.9	12.6 11.8 12.5 11.6 11.8 11.5
oker 304	1.15 1.16 1.18 1.15 1.18 1.10 1.15	0.53 .52 .54 .51 .54 .47 .51	72.0 71.3 72.5 72.0 70.5 72.7 71.5	Hunter's b value 9.0 9.2 9.1 8.8 9.4 8.9 9.0	tenacity (cN/tex) 12.6 11.8 12.5 11.6 11.8 11.5
oker 304	1.15 1.16 1.18 1.15 1.18 1.10 1.15 1.15 1.19	0.53 .52 .54 .51 .54 .47 .51 .52	72.0 71.3 72.5 72.0 70.5 72.7 71.5 72.4	9.0 9.2 9.1 8.8 9.4 8.9 9.0 9.5	tenacity (cN/tex) 12.6 11.8 12.5 11.6 11.8 11.5 12.3 11.6
oker 304	1.15 1.16 1.18 1.15 1.18 1.10 1.15 1.15 1.15	0.53 .52 .54 .51 .54 .47 .51 .52 .53	72.0 71.3 72.5 72.0 70.5 72.7 71.5 72.4 72.5	Hunter's b value 9.0 9.2 9.1 8.8 9.4 8.9 9.0 9.5 9.3	tenacity (cN/tex) 12.6 11.8 12.5 11.6 11.8 11.5 12.3 11.6 12.1
oker 304	1.15 1.16 1.18 1.15 1.18 1.10 1.15 1.19 1.12 1.14	0.53 .52 .54 .51 .54 .47 .51 .52 .53 .49	72.0 71.3 72.5 72.0 70.5 72.7 71.5 72.4 72.5 70.5 73.4	Hunter's b value 9.0 9.2 9.1 8.8 9.4 8.9 9.0 9.5 9.3 9.4	tenacity (cN/tex) 12.6 11.8 12.5 11.6 11.8 11.5 12.3 11.6 12.1 11.9
oker 304	1.15 1.16 1.18 1.15 1.18 1.10 1.15 1.15 1.15 1.15 1.17	0.53 .52 .54 .51 .54 .47 .51 .52 .53 .49 .50	72.0 71.3 72.5 72.0 70.5 72.7 71.5 72.4 72.5 70.5 73.4 73.9	Hunter's b value 9.0 9.2 9.1 8.8 9.4 8.9 9.0 9.5 9.3 9.4 9.6	tenacity (cN/tex) 12.6 11.8 12.5 11.6 11.8 11.5 12.3 11.6 12.1 11.9 12.0
oker 304	1.15 1.16 1.18 1.15 1.18 1.10 1.15 1.15 1.19 1.12 1.14 1.17	0.53 .52 .54 .51 .54 .47 .51 .52 .53 .49 .50	72.0 71.3 72.5 72.0 70.5 72.7 71.5 72.4 72.5 70.5 73.4 73.9 73.1	Hunter's b value 9.0 9.2 9.1 8.8 9.4 8.9 9.0 9.5 9.3 9.4 9.6 9.1	tenacity (cN/tex) 12.6 11.8 12.5 11.6 11.8 11.5 12.3 11.6 12.1 11.9 12.0 12.9 11.7
Coker 304	1.15 1.16 1.18 1.15 1.18 1.10 1.15 1.15 1.15 1.17 1.12 1.14	0.53 .52 .54 .51 .54 .47 .51 .52 .53 .49 .50 .56	72.0 71.3 72.5 72.0 70.5 72.7 71.5 72.4 72.5 70.5 73.4 73.9 73.1 70.4	Hunter's b value 9.0 9.2 9.1 8.8 9.4 8.9 9.0 9.5 9.3 9.4 9.6 9.1 9.5 9.2	tenacity (cN/tex) 12.6 11.8 12.5 11.6 11.8 11.5 12.3 11.6 12.1 11.9 12.0 12.9 11.7 10.9
fcNair 235 Coker 304 Coker 310 Stoneville 825N Coker 315 Coker 318 Coker 420 Co	1.15 1.16 1.18 1.15 1.18 1.10 1.15 1.15 1.19 1.12 1.14 1.17	0.53 .52 .54 .51 .54 .47 .51 .52 .53 .49 .50	72.0 71.3 72.5 72.0 70.5 72.7 71.5 72.4 72.5 70.5 73.4 73.9 73.1	Hunter's b value 9.0 9.2 9.1 8.8 9.4 8.9 9.0 9.5 9.3 9.4 9.6 9.1	tenacity (cN/tex) 12.6 11.8 12.5 11.6 11.8 11.5 12.3 11.6 12.1 11.9 12.0 12.9 11.7

Table 6.--Eastern test: Yield, boll, and spinning data for Grand Junction (Ames Plantation), Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 731N	1106 a	5.40	40.0	10.5	5.10
Stoneville 825N	1053 ab	5.48	39.7	11.1	5.25
McNair 235	1050 ab	5.70	39.8	10.2	4.75
Deltapine 26	1043 abc	5.51	41.1	11.0	5.50
Stoneville 213	1019 bcd	5.42	39.4	11.0	5.20
Stoneville 603	998 bcd	5.55	39.3	10.8	5.05
Coker 310	980 bcde	5.42	39.8	10.6	4.60
Deltapine 61	969 cde	5.55	38.9	10.8	5.15
Deltapine 55	966 de	5.14	41.6	9.4	4.70
Coker 315	959 de	5.79	40.6	10.6	4.85
Coker 304	952 de	5.27	39.3	10.5	4.55
Coker 420	944 de	5.55	37.7	10.9	4.70
Dixie King 3	916 ef	6.20	38.3	11.1	4.55
McNair 220	904 efg	5.83	39.3	10.7	4.90
S.C1	868 fg	4.99	39.8	11.3	4.55
Paymaster 303	836 g	6.44	38.3	11.5	4.55
Acala SJ-5	759 h	6.43	38.6	11.6	4.70
	Snan longth (i	nahas)	Coloni		Vann
	Span length (i	ilches)	Colori	meter	Yarn
	2.5%	50%	$\frac{COTOFIR}{R}d$	Hunter's b value	tenacith
Stonovillo 731N	2.5%	50%	$\frac{R}{d}$	Hunter's b value	tenacith (cN/tex)
	1.13	0.54	77.3	Hunter's b value 9.4	tenacith (cN/tex)
Stoneville 825N	1.13	0.54 .52	77.3 76.6	Hunter's b value 9.4 9.0	tenacith (cN/tex) 10.4 11.4
Stoneville 825N McNair 235	1.13 1.14 1.12	0.54 .52 .53	77.3 76.6 74.9	Hunter's b value 9.4 9.0 8.8	tenacith (cN/tex) 10.4 11.4 11.9
Stoneville 825N McNair 235 Deltapine 26	1.13 1.14 1.12 1.11	0.54 .52 .53 .54	77.3 76.6 74.9 75.5	Hunter's b value 9.4 9.0 8.8 9.2	tenacith (cN/tex) 10.4 11.4 11.9 11.2
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213	1.13 1.14 1.12 1.11 1.09	0.54 .52 .53 .54	77.3 76.6 74.9 75.5 74.1	Hunter's b value	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603	1.13 1.14 1.12 1.11 1.09 1.11	0.54 .52 .53 .54 .52	77.3 76.6 74.9 75.5 74.1 74.9	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310	1.13 1.14 1.12 1.11 1.09 1.11 1.13	0.54 .52 .53 .54 .52 .53	77.3 76.6 74.9 75.5 74.1 74.9 76.0	Hunter's b value	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12	0.54 .52 .53 .54 .52 .53 .50	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2 9.1 9.3	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61 Deltapine 55	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12 1.15	0.54 .52 .53 .54 .52 .53 .50 .52	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8 75.3	Hunter's b value 4 9.4 9.0 8.8 9.2 9.4 9.2 9.4 9.2	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2 11.9
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61 Deltapine 55 Coker 315	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12 1.15 1.18	0.54 .52 .53 .54 .52 .53 .50 .52 .54	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8 75.3 75.0	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2 9.4 9.2 9.3	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2 11.9 12.8
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61 Deltapine 55 Coker 315 Coker 304	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12 1.15 1.18	0.54 .52 .53 .54 .52 .53 .50 .52 .54 .56	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8 75.3 75.0 74.1	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2 9.4 9.2 9.1 9.3 9.2 9.3	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2 11.9 12.8 12.3
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61 Deltapine 55 Coker 315 Coker 304 Coker 420	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12 1.15 1.18 1.19	0.54 .52 .53 .54 .52 .53 .50 .52 .54 .56 .55	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8 75.3 75.0 74.1 74.2	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2 9.1 9.3 9.2 9.1 9.3 9.2 9.1	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2 11.9 12.8 12.8
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61 Deltapine 55 Coker 315 Coker 304 Coker 420 Dixie King 3	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12 1.15 1.18 1.19 1.19	0.54 .52 .53 .54 .52 .53 .50 .52 .54 .56 .55	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8 75.3 75.0 74.1 74.2 74.2	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2 9.1 9.3 9.2 9.1 8.8	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2 11.9 12.8 12.8 11.8
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61 Deltapine 55 Coker 315 Coker 304 Coker 420 Dixie King 3 McNair 220	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12 1.15 1.18 1.19 1.19 1.11	0.54 .52 .53 .54 .52 .53 .50 .52 .54 .56 .55 .55	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8 75.3 75.0 74.1 74.2 74.2 76.2	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2 9.1 9.3 9.2 9.1 8.8 9.2	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2 11.9 12.8 12.8 11.8 12.5
Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61 Deltapine 55 Coker 315 Coker 304 Coker 420 Dixie King 3 McNair 220 S.C1	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12 1.15 1.18 1.19 1.19 1.11 1.10	0.54 .52 .53 .54 .52 .53 .50 .52 .54 .56 .55 .55	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8 75.3 75.0 74.1 74.2 74.2 76.2 75.6	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2 9.1 9.3 9.2 9.1 8.8 8.4 8.7	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2 11.9 12.8 12.8 12.3 12.8 11.8 12.5 12.7
Stoneville 731N Stoneville 825N McNair 235 Deltapine 26 Stoneville 213 Stoneville 603 Coker 310 Deltapine 61 Deltapine 55 Coker 315 Coker 304 Coker 420 Dixie King 3 McNair 220 Paymaster 303 Acala SJ-5	1.13 1.14 1.12 1.11 1.09 1.11 1.13 1.12 1.15 1.18 1.19 1.19 1.11	0.54 .52 .53 .54 .52 .53 .50 .52 .54 .56 .55 .55	77.3 76.6 74.9 75.5 74.1 74.9 76.0 74.8 75.3 75.0 74.1 74.2 74.2 76.2	Hunter's b value 9.4 9.0 8.8 9.2 9.4 9.2 9.1 9.3 9.2 9.1 8.8 9.2	tenacith (cN/tex) 10.4 11.4 11.9 11.2 10.8 11.7 12.7 11.2 11.9 12.8 12.8 11.8 12.5

Table 7.--Eastern test: Yield, boll, and spinning data for Milan, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
McNair 235	991 a	5.25	37.8	9.6	4.05
Stoneville 213	985 ab	5.27	38.0	10.0	4.30
Dixie King 3	935 abc	5.61	37.7	9.7	3.90
Stoneville 603	933 abc	5.40	39.2	9.6	4.60
Deltapine 61	896 abc	5.42	38.2	10.4	4.75
Stoneville 825N	896 abc	4.92	38.5	10.6	4.50
Stoneville 731N	895 abc	5.20	39.4	10.3	4.70
Deltapine 26	894 abc	4.58	40.9	9.9	4.80
Coker 310	863 bcd	5.53	39.1	10.1	4.45
Paymaster 303	860 bcd	6.22	36.8	10.9	4.10
Deltapine 55	859 bcd	4.73	40.2	8.9	4.15
Coker 304	843 cd	5.59	38.6	9.9	4.45
McNair 220	823 cd	5.37	37.3	10.3	4.35
Coker 315	818 cd	5.40	39.6	9.8	4.45
S.C1	815 cd	4.58	39.6	10.2	4.05
Coker 420	814 cd	5.38	37.7	9.9	4.35
	767 d	6.24	38.4	11.3	4.45
Acala SJ-5				rimeter	Yarn
Acala SJ-5	Span length (
	Span length (inches) 50%	$\frac{Color}{R_d}$	rimeter Hunter's b value	Yarn tenacity (cN/tex)
McNair 235	Span length (2.5%	(inches) 50%	$\frac{\text{Color}}{R_d}$	rimeter Hunter's b value	Yarn tenacity (cN/tex)
McNair 235 Stoneville 213	Span length (2.5%	0.48 .48	75.2 76.3	rimeter Hunter's b value 8.4 9.8	Yarn tenacity (cN/tex)
McNair 235 Stoneville 213 Dixie King 3	Span length (2.5% 1.11 1.06 1.06	0.48 .48	75.2 76.3 75.9	Hunter's b value 8.4 9.8 8.9	Yarn tenacity (cN/tex) 11.8 11.4 12.1
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603	Span length (2.5% 1.11 1.06 1.06 1.06	0.48 .48 .48 .47	75.2 76.3 75.9 75.0	Hunter's b value 8.4 9.8 8.9 9.3	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61	Span length (2.5% 1.11 1.06 1.06 1.06 1.09	0.48 .48 .48 .47	75.2 76.3 75.9 75.0 74.7	### Primeter Hunter's b value ### 8.4	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N	Span length (2.5% 1.11 1.06 1.06 1.06 1.07	0.48 .48 .48 .47 .49	75.2 76.3 75.9 75.0 74.7 75.9	### Runter's b value 8.4 9.8 8.9 9.3 9.0 9.2	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07	0.48 .48 .48 .47 .49 .47	75.2 76.3 75.9 75.0 74.7 75.9 76.8	### Runter's b value 8.4 9.8 8.9 9.3 9.0 9.2 9.0	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N Stoneville 731N Deltapine 26	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07	0.48 .48 .48 .47 .49 .47	75.2 76.3 75.9 75.0 74.7 75.9 76.8 77.6	### Runter's b value 8.4 9.8 8.9 9.3 9.0 9.2 9.0 9.4	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4 10.7 11.5
McNair 235 Stoneville 213 Stoneville 603 Stoneville 603 Stoneville 825N Stoneville 731N Seltapine 26 Coker 310	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07 1.07 1.14	0.48 .48 .48 .47 .49 .47 .47 .48	75.2 76.3 75.9 75.0 74.7 75.9 76.8 77.6 75.7	### Refer ###################################	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4 10.7 11.5 11.9
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N Stoneville 731N Deltapine 26 Coker 310	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07 1.07 1.07	0.48 .48 .48 .47 .49 .47 .47 .48	75.2 76.3 75.9 75.0 74.7 75.9 76.8 77.6 75.7 76.2	### Runter's b value 8.4 9.8 8.9 9.3 9.0 9.2 9.0 9.4 9.0	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.5 11.4 10.7 11.5 11.9 10.9
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N Stoneville 731N Deltapine 26 Coker 310 Paymaster 303 Deltapine 55	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07 1.07 1.07 1.07 1.08	0.48 .48 .48 .47 .49 .47 .47 .48 .52 .48	75.2 76.3 75.9 75.9 76.8 77.6 75.7 76.2 75.1	### Refer Hunter's b value	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4 10.7 11.5 11.9 10.9 11.7
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N Stoneville 731N Deltapine 26 Coker 310 Paymaster 303 Deltapine 55 Coker 304	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07 1.07 1.07 1.14 1.05 1.08 1.10	0.48 .48 .48 .47 .49 .47 .48 .52 .48 .48	75.2 76.3 75.9 75.0 74.7 75.9 76.8 77.6 75.7 76.2 75.1 76.2	### Refer Hunter's b value ### 8.4 9.8 8.9 9.3 9.0 9.2 9.0 9.4 9.0 9.0 9.2 9.0 9.3 9.0 9.3 9.0 9.2 9.0 9.3 9.0 9.3 9.0 9.1 9.0 9.1 9.0 9.2 9.3 9.3 9.3 9.0 9.3 9.3 9.0 9.3 9.0 9.3 9.0 9.1 9.0 9.1 9.1 9.2 9.3	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4 10.7 11.5 11.9 10.9 11.7 12.0
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N Stoneville 731N Deltapine 26 Coker 310 Paymaster 303 Deltapine 55 Coker 304	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07 1.07 1.07 1.14 1.05 1.08 1.10 1.12	0.48 .48 .48 .47 .49 .47 .47 .48 .52 .48 .48	75.2 76.3 75.9 75.9 76.8 77.6 75.7 76.2 75.1 76.2 75.5	### Runter's b value 8.4 9.8 8.9 9.3 9.0 9.2 9.0 9.4 9.0 9.2 9.0 9.4 9.0 9.0 9.2 9.0 9.0 9.0	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4 10.7 11.5 11.9 10.9 11.7 12.0 11.6
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N Stoneville 731N Deltapine 26 Coker 310 Paymaster 303 Deltapine 55 Coker 304 McNair 220 Coker 315	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07 1.07 1.14 1.05 1.08 1.10 1.12 1.14	0.48 .48 .48 .47 .49 .47 .47 .48 .52 .48 .48 .49 .53	75.2 76.3 75.9 75.0 74.7 75.9 76.8 77.6 75.7 76.2 75.1 76.2 75.5 75.8	### Refer ###################################	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4 10.7 11.5 11.9 10.9 11.7 12.0 11.6 12.5
McNair 235	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07 1.07 1.14 1.05 1.08 1.10 1.12 1.14 1.13	0.48 .48 .48 .47 .49 .47 .48 .52 .48 .52 .48 .52	Color R d 75.2 76.3 75.9 75.0 74.7 75.9 76.8 77.6 75.7 76.2 75.1 76.2 75.5 75.8 76.9	### Runter's b value 8.4	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.5 11.4 10.7 11.5 11.9 10.9 11.7 12.0 11.6 12.5 12.7
McNair 235 Stoneville 213 Dixie King 3 Stoneville 603 Deltapine 61 Stoneville 825N Stoneville 731N Deltapine 26 Coker 310	Span length (2.5% 1.11 1.06 1.06 1.06 1.07 1.07 1.07 1.14 1.05 1.08 1.10 1.12 1.14	0.48 .48 .48 .47 .49 .47 .47 .48 .52 .48 .48 .49 .53	75.2 76.3 75.9 75.0 74.7 75.9 76.8 77.6 75.7 76.2 75.1 76.2 75.5 75.8	### Refer ###################################	Yarn tenacity (cN/tex) 11.8 11.4 12.1 11.1 11.5 11.4 10.7 11.5 11.9 10.9 11.7 12.0 11.6 12.5

Table 8.--Eastern test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	833 a	5.42	37.6		4.75
Deltapine 61	829 a	5.52	38.7	10.2	5.00
McNair 235	808 a	5.66	38.0		4.85
Deltapine 55	800 a	5.08	40.3	9.6	4.65
S.C1	786 ab	4.79	37.5	11.3	4.60
toneville 825N	747 ab	5.30	37.5	11.3	5.15
toneville 603	732 ab	5.67	36.3	10.9	4.85
toneville 213	709 ab	5.14	37.0	10.5	4.85
oker 420	709 ab	4.95	36.4	10.9	4.75
oker 315	690 ab	4.81	39.7	10.3	4.75
eltapine 26	683 ab	5.35	41.1	10.5	5.10
Stoneville 731N	636 b	5.88	37.4	11.1	5.25
Coker 304	630 b	5.52	37.1	10.4	4.65
Oker 310	474 c	5.43	37.1	11.2	4.75
oixie King 3	453 c	5.50	36.4	11.7	4.45
Paymaster 303	438 c	5.26	35.9	12.1	4.45
Acala SJ-5	127 d	4.47	34.7	12.1	4.00
	Span length (inches) 50%	$\frac{Color}{R_d}$	rimeter Hunter's b value	Yarn tenacity (cN/tex)
McNair 220	1.11	0.49	73.8	8.0	12.0
eltapine 61	1.16	.55	77.9	8.6	11.9
eltapine 61 cNair 235	1.16 1.13	.55 .53	77.9 75.5	8.6 8.4	11.9 12.2
eltapine 61 CNair 235 eltapine 55	1.16 1.13 1.15	.55 .53 .52	77.9 75.5 [.] 76.5	8.6 8.4 8.7	11.9 12.2 12.1
eltapine 61 cNair 235 eltapine 55 .C1	1.16 1.13 1.15 1.16	.55 .53 .52 .56	77.9 75.5 76.5 76.5	8.6 8.4 8.7 8.3	11.9 12.2 12.1 12.9
eltapine 61 cNair 235 eltapine 55 c.C1 toneville 825N	1.16 1.13 1.15 1.16 1.11	.55 .53 .52 .56 .51	77.9 75.5 76.5 76.5 74.8	8.6 8.4 8.7 8.3 7.8	11.9 12.2 12.1 12.9 11.6
eltapine 61 cNair 235 eltapine 55 cC1 toneville 825N toneville 603	1.16 1.13 1.15 1.16 1.11	.55 .53 .52 .56 .51	77.9 75.5 76.5 76.5 74.8 75.4	8.6 8.4 8.7 8.3 7.8 8.4	11.9 12.2 12.1 12.9 11.6 11.5
eltapine 61 cNair 235 eltapine 55 c.C1 toneville 825N toneville 603 toneville 213	1.16 1.13 1.15 1.16 1.11 1.12 1.11	.55 .53 .52 .56 .51 .53	77.9 75.5 76.5 76.5 74.8 75.4 73.8	8.6 8.4 8.7 8.3 7.8 8.4 8.9	11.9 12.2 12.1 12.9 11.6 11.5
Deltapine 61 McNair 235 Deltapine 55 Stoneville 825N Stoneville 603 Stoneville 213 Coker 420	1.16 1.13 1.15 1.16 1.11 1.12 1.11	.55 .53 .52 .56 .51 .53 .51	77.9 75.5 76.5 76.5 74.8 75.4 73.8 74.2	8.6 8.4 8.7 8.3 7.8 8.4 8.9	11.9 12.2 12.1 12.9 11.6 11.5 11.0
Deltapine 61 McNair 235 Deltapine 55 S.C1 Stoneville 825N Stoneville 603 Stoneville 213 Coker 420 Coker 315	1.16 1.13 1.15 1.16 1.11 1.12 1.11 1.17	.55 .53 .52 .56 .51 .53 .51	77.9 75.5 76.5 76.5 74.8 75.4 73.8 74.2 74.1	8.6 8.4 8.7 8.3 7.8 8.4 8.9 8.3	11.9 12.2 12.1 12.9 11.6 11.5 11.0 12.7
Deltapine 61 McNair 235 Deltapine 55 Sc.C1 Stoneville 825N Stoneville 603 Stoneville 213 Coker 420 Coker 315 Deltapine 26	1.16 1.13 1.15 1.16 1.11 1.12 1.11 1.17 1.17	.55 .53 .52 .56 .51 .53 .51 .53	77.9 75.5 76.5 76.5 74.8 75.4 73.8 74.2 74.1 76.6	8.6 8.4 8.7 8.3 7.8 8.4 8.9 8.3 8.8	11.9 12.2 12.1 12.9 11.6 11.5 11.0 12.7 12.7
Deltapine 61 McNair 235 Deltapine 55 Sc.C1 Stoneville 825N Stoneville 603 Stoneville 213 Coker 420 Coker 315 Deltapine 26 Stoneville 731N	1.16 1.13 1.15 1.16 1.11 1.12 1.11 1.17 1.17 1.17	.55 .53 .52 .56 .51 .53 .51 .53 .53	77.9 75.5 76.5 76.5 74.8 75.4 73.8 74.2 74.1 76.6 75.9	8.6 8.4 8.7 8.3 7.8 8.4 8.9 8.3 8.8 8.7	11.9 12.2 12.1 12.9 11.6 11.5 11.0 12.7 12.5 11.7
Deltapine 61 McNair 235 Deltapine 55 Stoneville 825N Stoneville 603 Stoneville 213 Coker 420 Deltapine 26 Stoneville 731N Coker 304	1.16 1.13 1.15 1.16 1.11 1.12 1.11 1.17 1.17 1.17	.55 .53 .52 .56 .51 .53 .51 .53 .53 .54 .52	77.9 75.5 76.5 76.5 74.8 75.4 73.8 74.2 74.1 76.6 75.9 74.9	8.6 8.4 8.7 8.3 7.8 8.4 8.9 8.3 8.8 8.7 8.6	11.9 12.2 12.1 12.9 11.6 11.5 11.0 12.7 12.5 11.7 12.6
Deltapine 61 McNair 235 Deltapine 55 Stoneville 825N Stoneville 603 Stoneville 213 Coker 420 Deltapine 26 Stoneville 731N Coker 304 Coker 310	1.16 1.13 1.15 1.16 1.11 1.12 1.11 1.17 1.17 1.13 1.18 1.17	.55 .53 .52 .56 .51 .53 .51 .53 .53 .54 .52 .51	77.9 75.5 76.5 76.5 74.8 75.4 73.8 74.2 74.1 76.6 75.9 74.9 73.5	8.6 8.4 8.7 8.3 7.8 8.4 8.9 8.3 8.8 8.7 8.6 8.6	11.9 12.2 12.1 12.9 11.6 11.5 11.0 12.7 12.5 11.7 12.0 12.6 12.7
Deltapine 61 McNair 235 Deltapine 55 Sc.C1 Stoneville 825N Stoneville 603 Stoneville 213 Coker 420 Deltapine 26 Stoneville 731N Coker 304 Dixie King 3	1.16 1.13 1.15 1.16 1.11 1.12 1.11 1.17 1.17 1.17	.55 .53 .52 .56 .51 .53 .51 .53 .53 .54 .52 .51	77.9 75.5 76.5 76.5 74.8 75.4 73.8 74.2 74.1 76.6 75.9 74.9 73.5 72.6	8.6 8.4 8.7 8.3 7.8 8.4 8.9 8.3 8.8 8.7 8.6 8.6	11.9 12.2 12.1 12.9 11.6 11.5 11.0 12.7 12.5 11.7 12.6
Deltapine 61 McNair 235	1.16 1.13 1.15 1.16 1.11 1.12 1.11 1.17 1.17 1.13 1.18 1.17	.55 .53 .52 .56 .51 .53 .51 .53 .53 .54 .52 .51	77.9 75.5 76.5 76.5 74.8 75.4 73.8 74.2 74.1 76.6 75.9 74.9 73.5	8.6 8.4 8.7 8.3 7.8 8.4 8.9 8.3 8.8 8.7 8.6 8.6	11.9 12.2 12.1 12.9 11.6 11.5 11.0 12.7 12.5 11.7 12.0 12.6 12.7

Table 9.--Eastern test: Yield, boll, and spinning data for Rocky Mount, N.C.

/ariety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 304	787 a	5.60	44.1	9.3	4.80
Deltapine 55	770 ab	5.13	46.8	8.7	5.30
Dixie King 3	759 abc	5.40	44.4	9.8	5.25
Coker 310	751 abc	5.64	49.9	9.3	5.10
Coker 315	733 abc	5.34	45.5	8.9	5.35
McNair 235	712 abcd	5.44	43.5	8.8	5.10
Stoneville 603	693 abcd	5.57	46.2	9.7	5.65
Deltapine 26	691 abcd	5.26	47.0	8.9	5.70
Coker 420	677 abcd	5.40	42.0	9.5	4.90
Deltapine 61	673 bcd	5.32	45.1	9.0	5.65
Stoneville 213	652 cd	5.28	44.4	9.2	5.75
S.C1	647 cd	5.26	44.2	9.1	5.15
Stoneville 825N	612 de	5.55	44.6	10.2	5.35
Stoneville 731N	608 de	5.47	43.2	9.7	5.50
Paymaster 303	534 e	6.38	40.0	10.1	4.60
McNair 220	509 e	6.03	42.8	9.6	5.10
Acala SJ-5	222 f	6.13	40.6	10.3	4.65
	Span length (inches)	Color	rimeter	Yarn
	Span length (inches) 50%	$\frac{Color}{R_{d}}$	rimeter Hunter's b value	Yarn tenacity (cN/tex)
Coker 304		0.51	73.7	Hunter's b value	tenacity (cN/tex)
Coker 304 Deltapine 55	2.5%	50%	R_{d}	Hunter's b value	tenacity (cN/tex)
	1.11	0.51	73.7	Hunter's b value	tenacity (cN/tex)
eltapine 55	1.11	0.51 .49	73.7 74.7	Hunter's b value 8.5 9.0	tenacity (cN/tex)
Deltapine 55	1.11 1.01 1.01	0.51 .49 .48	73.7 74.7 72.3	Hunter's b value 8.5 9.0 9.3	tenacity (cN/tex) 11.5 11.1 12.2
Deltapine 55 Dixie King 3 Coker 310	1.11 1.01 1.01 1.06	0.51 .49 .48	73.7 74.7 72.3 72.9	Hunter's b value 8.5 9.0 9.3 8.6	tenacity (cN/tex) 11.5 11.1 12.2 11.0
Deltapine 55 Dixie King 3 Coker 310 Coker 315	1.11 1.01 1.01 1.06 1.04	0.51 .49 .48 .50	73.7 74.7 72.3 72.9 74.4	Hunter's b value 8.5 9.0 9.3 8.6 8.9	11.5 11.1 12.2 11.0 11.7
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235	1.11 1.01 1.01 1.06 1.04 1.01	0.51 .49 .48 .50 .52 .49	73.7 74.7 72.3 72.9 74.4 74.4	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0	11.5 11.1 12.2 11.0 11.7 12.2
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235 Stoneville 603	1.11 1.01 1.01 1.06 1.04 1.01 1.05	0.51 .49 .48 .50 .52 .49	73.7 74.7 72.3 72.9 74.4 74.4 72.9	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0 9.7	tenacity (cN/tex) 11.5 11.1 12.2 11.0 11.7 12.2 11.6
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235 Stoneville 603 Deltapine 26	1.11 1.01 1.01 1.06 1.04 1.01 1.05 1.02	0.51 .49 .48 .50 .52 .49 .49	73.7 74.7 72.3 72.9 74.4 74.4 72.9 74.8	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0 9.7 9.1	tenacity (cN/tex) 11.5 11.1 12.2 11.0 11.7 12.2 11.6 11.4
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235 Stoneville 603 Deltapine 26 Coker 420 Deltapine 61	1.11 1.01 1.01 1.06 1.04 1.01 1.05 1.02 1.08	0.51 .49 .48 .50 .52 .49 .49 .51	73.7 74.7 72.3 72.9 74.4 74.4 72.9 74.8 73.5	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0 9.7 9.1 8.3	tenacity (cN/tex) 11.5 11.1 12.2 11.0 11.7 12.2 11.6 11.4 11.8
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235 Stoneville 603 Deltapine 26 Deltapine 61 Stoneville 213	1.11 1.01 1.01 1.06 1.04 1.01 1.05 1.02 1.08 1.03	0.51 .49 .48 .50 .52 .49 .49 .51	73.7 74.7 72.3 72.9 74.4 74.4 72.9 74.8 73.5 75.8	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0 9.7 9.1 8.3 9.0	tenacity (cN/tex) 11.5 11.1 12.2 11.0 11.7 12.2 11.6 11.4 11.8 11.0
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235 Stoneville 603 Deltapine 26 Deltapine 61 Stoneville 213 Coker 420	1.11 1.01 1.01 1.06 1.04 1.01 1.05 1.02 1.08 1.03 .98 1.03	0.51 .49 .48 .50 .52 .49 .49 .51 .52 .52	73.7 74.7 72.3 72.9 74.4 74.4 72.9 74.8 73.5 75.8 75.1	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0 9.7 9.1 8.3 9.0 9.4	tenacity (cN/tex) 11.5 11.1 12.2 11.0 11.7 12.2 11.6 11.4 11.8 11.0 10.9
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235 Stoneville 603 Deltapine 26 Deltapine 61 Stoneville 213 Stoneville 825N	1.11 1.01 1.01 1.06 1.04 1.01 1.05 1.02 1.08 1.03 .98 1.03	0.51 .49 .48 .50 .52 .49 .49 .51 .52 .52 .48	73.7 74.7 72.3 72.9 74.4 74.4 72.9 74.8 73.5 75.8 75.1 75.7	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0 9.7 9.1 8.3 9.0 9.4 8.5	tenacity (cN/tex) 11.5 11.1 12.2 11.0 11.7 12.2 11.6 11.4 11.8 11.0 10.9 11.8
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235 Stoneville 603 Deltapine 26 Deltapine 61 Stoneville 213 Stoneville 825N Stoneville 731N	1.11 1.01 1.01 1.06 1.04 1.01 1.05 1.02 1.08 1.03 .98 1.03 1.04 1.02	0.51 .49 .48 .50 .52 .49 .49 .51 .52 .52 .48 .53 .49	73.7 74.7 72.3 72.9 74.4 74.4 72.9 74.8 73.5 75.8 75.1 75.7 71.3 71.7	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0 9.7 9.1 8.3 9.0 9.4 8.5 9.4	tenacity (cN/tex) 11.5 11.1 12.2 11.0 11.7 12.2 11.6 11.4 11.8 11.0 10.9 11.8 11.4
Deltapine 55 Dixie King 3 Coker 310 Coker 315 McNair 235 Stoneville 603 Deltapine 26 Deltapine 61 Stoneville 213 Stoneville 825N	1.11 1.01 1.01 1.06 1.04 1.01 1.05 1.02 1.08 1.03 .98 1.03	0.51 .49 .48 .50 .52 .49 .49 .51 .52 .52 .48	73.7 74.7 72.3 72.9 74.4 74.4 72.9 74.8 73.5 75.8 75.1 75.7 71.3	Hunter's b value 8.5 9.0 9.3 8.6 8.9 8.0 9.7 9.1 8.3 9.0 9.4 8.5 9.4 9.5	tenacity (cN/tex) 11.5 11.1 12.2 11.0 11.7 12.2 11.6 11.4 11.8 11.0 10.9 11.8 11.4 11.3

Table 10.--Eastern test: Yield, boll, and spinning data for Auburn, Ala.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
McNair 235	482 a	5.00	38.4	11.0	4.35
Stoneville 731N	463 ab	4.99	39.4	11.1	4.50
Stoneville 825N	436 abc	4.77	37.8	11.1	4.40
Coker 304	436 abc	5.00	38.5	11.5	4.25
Stoneville 603	430 abc	4.77	38.0	10.9	4.40
Dixie King 3	427 abcd	5.67	36.3	11.8	4.00
Paymaster 303	415 abcde	5.67	36.9	12.7	4.00
Stoneville 213	410 abcde	4.77	37.0	11.5	4.40
McNair 220	402 abcdef	4.77	38.2	10.4	4.30
Coker 310	381 bcdef	5.22	38.3	11.5	4.25
Coker 315	377 bcdef	5.00	38.5	11.8	4.40
Coker 420	369 bcdef	5.22	36.6	12.4	4.30
S.C1	360 cdef	4.54	37.9	11.6	3.90
Deltapine 26	344 def	4.77	39.1	11.1	4.40
Deltapine 61	333 ef	5.00	37.0	11.9	4.45
Deltapine 55	323 ef	4.31	38.4	10.6	3.90
Acala SJ-5	310 f	5.00	38.1	11.7	4.00
	Span length (inches)		imeter	Yarn
	2.5%	50%	R_{d}	Hunter's	tenacity
			α.	b value	(cN/tex)
McNair 235	1.12	0.51	74.8	9.1	12.3
Stoneville 731N	1.13	.52	75.7	9.7	11.5
Stoneville 825N	1.13	.50	75.1	9.2	11.7
				9.2	
Coker 304	1.14	.50	73.5		12.2
Stoneville 603	1.13	.52	74.4	9.9	11.7
Dixie King 3	1.12	.53	75.8	9.0	12.1
aymaster 303	1.06	.47	75.5	9.3	11.7
Stoneville 213	1.11	.52	75.1	9.5	11.9
McNair 220	1.11	.50	72.5	9.2	11.9
Coker 310	1.18	.55	73.6	9.3	12.8
Coker 315	1.18	.53	73.9	9.7	12.6
Coker 420	1.15	.51	74.6	9.2	12.9
S.C1	1.16	.54	75.8	8.8	13.8
Deltapine 26	1.14	.53	75.5	9.1	12.7
eltapine 61	1.13	.51	74.4	9.7	12.5
Deltapine 55	1.13	.50	74.7	9.2	12.6
Acala SJ-5	1.14	.55	77.2	9.2	14.3

Table 11.--Eastern test: Yield, boll, and spinning data for Athens, Ga.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Dixie King 3	198 a	6.35	39.5	11.5	4.65
McNair 235	195 ab	5.72	41.0	10.3	4.65
McNair 220	193 ab	5.87	39.7	11.2	4.80
Deltapine 61	188 abc	5.85	38.4	10.6	5.20
S.C1	186 abc	5.32	39.7	11.0	4.55
Stoneville 213	185 abcd	5.76	39.4	10.9	5.20
Coker 315	184 abcd	5.79	40.6	11.3	4.90
Stoneville 825N	184 abcd	5.78	39.9	10.5	5.15
Coker 310	179 abcd	6.12	40.5	11.1	4.70
Coker 304	177 abcd	6.29	41.0	10.4	4.95
Stoneville 603	176 abcd	5.81	38.0	10.4	4.95
Stoneville 731N	165 bcde	5.88	40.5	11.7	
	160 cde		38.2		5.45
Coker 420		5.39		10.7	4.90
Paymaster 303	154 de	6.60	38.6	10.9	4.40
Deltapine 55	154 de	5.60	40.9	9.5	4.75
Deltapine 26	143 e	5.42	41.0	10.4	5.00
Acala SJ-5	70 f	6.04	39.5	10.0	4.30
	Span length (inches)	Color	rimeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
			~~~	7	( 37 / 4 )
				b value	(cN/tex)
Dixie King 3	1.13	0.57	76.0	<i>b</i> value  9.5	(cN/tex) 
McNair 235	1.13 1.16	.56	76.0	9.5	12.2
McNair 235 McNair 220	1.13 1.16 1.16	.56 .55	76.0 75.7 76.0	9.5 9.2	12.2
McNair 235 McNair 220 Deltapine 61	1.13 1.16 1.16 1.20	.56 .55 .57	76.0 75.7 76.0 75.4	9.5 9.2 9.4	12.2 12.4 12.5
Dixie King 3  McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213	1.13 1.16 1.16 1.20 1.21	.56 .55 .57 .59	76.0 75.7 76.0 75.4 74.6	9.5 9.2 9.4 9.7 8.9	12.2 12.4 12.5 12.1 13.8
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213	1.13 1.16 1.16 1.20 1.21 1.16	.56 .55 .57 .59 .58	76.0 75.7 76.0 75.4 74.6 75.5	9.5 9.2 9.4 9.7 8.9 9.7	12.2 12.4 12.5 12.1 13.8 12.1
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315	1.13 1.16 1.16 1.20 1.21 1.16 1.22	.56 .55 .57 .59 .58	76.0 75.7 76.0 75.4 74.6 75.5 74.5	9.5 9.2 9.4 9.7 8.9 9.7 9.2	12.2 12.4 12.5 12.1 13.8 12.1 12.9
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Stoneville 825N	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16	.56 .55 .57 .59 .58 .58	76.0 75.7 76.0 75.4 74.6 75.5 74.5 76.9	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Stoneville 825N  Coker 310	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16 1.20	.56 .55 .57 .59 .58 .58	76.0 75.7 76.0 75.4 74.6 75.5 74.5 76.9 74.5	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0 13.0
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Stoneville 825N  Coker 310  Coker 304	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16 1.20 1.21	.56 .55 .57 .59 .58 .58 .57	76.0 75.7 76.0 75.4 74.6 75.5 74.5 76.9 74.5	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2 9.0 9.5	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0 13.0 12.8
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Stoneville 825N  Coker 310  Coker 304  Stoneville 603	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16 1.20 1.21 1.15	.56 .55 .57 .59 .58 .58 .57 .60	76.0 75.7 76.0 75.4 74.6 75.5 74.5 76.9 74.5 74.6 74.2	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2 9.0 9.5 8.6	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0 13.0 12.8 12.2
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Coker 310  Coker 304  Stoneville 603  Stoneville 731N	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16 1.20 1.21 1.15 1.16	.56 .55 .57 .59 .58 .58 .57 .60 .57	76.0 75.7 76.0 75.4 74.6 75.5 74.5 74.5 74.6 74.2 77.5	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2 9.0 9.5 8.6 9.8	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0 13.0 12.8 12.2 11.7
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Stoneville 825N  Coker 304  Stoneville 603  Stoneville 731N  Coker 420	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16 1.20 1.21 1.15 1.16	.56 .55 .57 .59 .58 .58 .57 .60 .57 .56	76.0 75.7 76.0 75.4 74.6 75.5 74.5 76.9 74.5 74.6 74.2 77.5 74.7	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2 9.0 9.5 8.6 9.8 9.3	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0 13.0 12.8 12.2 11.7
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Stoneville 825N  Coker 304  Stoneville 603  Stoneville 731N  Coker 420  Paymaster 303	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16 1.20 1.21 1.15 1.16 1.20	.56 .55 .57 .59 .58 .58 .57 .60 .57 .56 .55	76.0 75.7 76.0 75.4 74.6 75.5 74.5 76.9 74.5 74.6 74.2 77.5 74.7	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2 9.0 9.5 8.6 9.8 9.3	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0 13.0 12.8 12.2 11.7 13.0 11.4
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Coker 310  Coker 304  Stoneville 603  Stoneville 731N  Coker 420  Paymaster 303  Deltapine 55	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16 1.20 1.21 1.15 1.16 1.20 1.17	.56 .55 .57 .59 .58 .58 .57 .60 .57 .56 .55	76.0 75.7 76.0 75.4 74.6 75.5 74.5 74.5 74.6 74.2 77.5 74.7 75.1	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2 9.0 9.5 8.6 9.8 9.3 9.8	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0 13.0 12.8 12.2 11.7 13.0 11.4
McNair 235  McNair 220  Deltapine 61  S.C1  Stoneville 213  Coker 315  Coker 310  Coker 304  Stoneville 603  Stoneville 731N  Coker 420  Paymaster 303	1.13 1.16 1.16 1.20 1.21 1.16 1.22 1.16 1.20 1.21 1.15 1.16 1.20	.56 .55 .57 .59 .58 .58 .57 .60 .57 .56 .55	76.0 75.7 76.0 75.4 74.6 75.5 74.5 76.9 74.5 74.6 74.2 77.5 74.7	9.5 9.2 9.4 9.7 8.9 9.7 9.2 9.2 9.0 9.5 8.6 9.8 9.3	12.2 12.4 12.5 12.1 13.8 12.1 12.9 12.0 13.0 12.8 12.2 11.7 13.0 11.4

# DELTA REGIONAL COTTON VARIETY TEST

Table 12.--Delta test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	949 a	5.59 de	38.4 d	11.6 bc	5.25 a
DES 56	945 a	5.15 f	38.4 de	11.1 d	4.97 b
Deltapine 55	932 a	5.40 ef	40.3 a	10.5 e	4.85 bc
Stoneville 731N	931 a	5.27 f	39.5 b	11.1 d	5.17 a
Deltapine 61	920 a	5.76 cd	39.1 bc	11.0 d	5.24 a
Stoneville 256	910 a	5.52 de ·	39.0 bc	10.9 d	5.20 a
Coker 310	898 a	5.89 bc	39.2 b	11.5 c	4.88 bc
DES 24	885 a	5.64 cde	38.6 cd	11.9 b	4.97 b
Paymaster 303	744 b	6.18 a	37.9 e	12.6 a	4.83 c
Rex 713	703 c	6.05 ab	34.8 f	12.6 a	4.64 d
Acala SJ-5	593 d	6.23 a	38.4 de	12.4 a	4.81 c
	Chan longth (	(inches)	Color	vimet on	Vama
	Span length (	(inches) 50%	$\frac{\text{Color}}{R_d}$	imeter  Hunter's  b value	Yarn tenacity (cN/tex)
Stoneville 213				Hunter's	tenacity
Stoneville 213 DES 56	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex) 11.6 hi 12.3 def
DES 56  Deltapine 55	1.14 cd 1.15 bc 1.16 b	0.54 bcd .54 abcd .53 cde	74.7 ab 74.4 b 75.2 a	Hunter's b value  8.5 a 8.2 bcd 8.1 cde	tenacity (cN/tex)
DES 56	2.5%  1.14 cd 1.15 bc 1.16 b 1.13 d	50% 0.54 bcd .54 abcd .53 cde .51 fg	74.7 ab 74.4 b 75.2 a 75.1 ab	Hunter's b value  8.5 a 8.2 bcd 8.1 cde 8.0 e	tenacity (cN/tex) 11.6 hi 12.3 def 12.6 c 11.7 ghi
DES 56  Deltapine 55  Stoneville 731N  Deltapine 61	1.14 cd 1.15 bc 1.16 b 1.13 d 1.17 b	0.54 bcd .54 abcd .53 cde .51 fg .55 ab	74.7 ab 74.4 b 75.2 a 75.1 ab 75.1 ab	Hunter's b value  8.5 a 8.2 bcd 8.1 cde 8.0 e 8.0 de	tenacity (cN/tex)  11.6 hi 12.3 def 12.6 c 11.7 ghi 12.4 de
DES 56  Deltapine 55  Stoneville 731N  Deltapine 61  Stoneville 256	1.14 cd 1.15 bc 1.16 b 1.13 d 1.17 b 1.15 bc	0.54 bcd .54 abcd .53 cde .51 fg .55 ab .53 de	74.7 ab 74.4 b 75.2 a 75.1 ab 75.1 ab 75.0 ab	Hunter's b value  8.5 a 8.2 bcd 8.1 cde 8.0 e 8.0 de 8.3 bc	tenacity (cN/tex)  11.6 hi 12.3 def 12.6 c 11.7 ghi 12.4 de 12.1 efg
DES 56  Deltapine 55  Stoneville 731N  Deltapine 61  Stoneville 256  Coker 310	2.5%  1.14 cd 1.15 bc 1.16 b 1.13 d 1.17 b 1.15 bc 1.20 a	0.54 bcd .54 abcd .53 cde .51 fg .55 ab .53 de .56 a	74.7 ab 74.4 b 75.2 a 75.1 ab 75.1 ab 75.0 ab 73.1 c	Hunter's b value  8.5 a 8.2 bcd 8.1 cde 8.0 e 8.0 de 8.3 bc 8.3 bc	tenacity (cN/tex)  11.6 hi 12.3 def 12.6 c 11.7 ghi 12.4 de 12.1 efg 13.3 b
DES 56	1.14 cd 1.15 bc 1.16 b 1.13 d 1.17 b 1.15 bc 1.20 a 1.17 b	0.54 bcd .54 abcd .53 cde .51 fg .55 ab .53 de .56 a .54 abc	74.7 ab 74.4 b 75.2 a 75.1 ab 75.0 ab 73.1 c 73.3 c	Hunter's b value  8.5 a 8.2 bcd 8.1 cde 8.0 e 8.0 de 8.3 bc 8.3 bc 8.4 ab	tenacity (cN/tex)  11.6 hi 12.3 def 12.6 c 11.7 ghi 12.4 de 12.1 efg 13.3 b 12.6 d
DES 56	1.14 cd 1.15 bc 1.16 b 1.13 d 1.17 b 1.15 bc 1.20 a 1.17 b 1.09 e	0.54 bcd .54 abcd .53 cde .51 fg .55 ab .53 de .56 a .54 abc .50 g	74.7 ab 74.4 b 75.2 a 75.1 ab 75.0 ab 73.1 c 73.3 c 73.5 c	Hunter's b value  8.5 a 8.2 bcd 8.1 cde 8.0 e 8.0 de 8.3 bc 8.3 bc 8.4 ab 8.3 ab	tenacity (cN/tex)  11.6 hi 12.3 def 12.6 c 11.7 ghi 12.4 de 12.1 efg 13.3 b 12.6 d 11.8 fgh
DES 56	1.14 cd 1.15 bc 1.16 b 1.13 d 1.17 b 1.15 bc 1.20 a 1.17 b	0.54 bcd .54 abcd .53 cde .51 fg .55 ab .53 de .56 a .54 abc	74.7 ab 74.4 b 75.2 a 75.1 ab 75.0 ab 73.1 c 73.3 c	Hunter's b value  8.5 a 8.2 bcd 8.1 cde 8.0 e 8.0 de 8.3 bc 8.3 bc 8.4 ab	tenacity (cN/tex)  11.6 hi 12.3 def 12.6 c 11.7 ghi 12.4 de 12.1 efg 13.3 b 12.6 d

Table 13.--Delta test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
St. Joseph, LA Stoneville, MS Tunica, MS Portageville, MO Clarkedale, AR Rohwer, AR Ridgely, TN	1223 a 959 b 946 bc 917 c 850 d 701 e 368 f	6.20 a 5.48 c 5.71 b 6.10 a 5.74 b 5.29 c 5.36 c	40.6 a 35.3 e 38.4 c 38.0 d 39.3 b 39.3 b 38.7 c	11.5 c 11.4 c 11.4 cd 12.8 a 11.1 d 12.1 b 10.6 e	5.22 b 4.53 e 4.71 d 5.25 b 4.75 d 5.45 a 4.94 c
	Span length (	inches)	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
St. Joseph, LA Stoneville, MS Tunica, MS Portageville, MO Clarkedale, AR Rohwer, AR Ridgely, TN	1.18 a 1.19 a 1.15 b 1.12 c 1.15 b 1.15 c	0.58 a .55 b .54 b .51 d .52 c .55 b .52 c	75.2 c 70.3 e 77.7 a 69.7 e 77.4 a 76.6 b 74.3 d	8.5 b 7.1 e 8.1 d 8.2 cd 8.2 cd 9.1 a 9.3 c	12.4 c 13.2 a 12.9 ab 11.8 d 12.5 bc 12.4 c 11.9 d

Table 14.--Delta test: Yield, boll, and spinning data for St. Joseph, La.

ety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
apine 55	1453 a	6.32	42.8	10.3	5.00
apine 61	1438 a	6.44	41.2	11.0	5.55
56	1318 ab	5.41	40.9	10.9	5.25
eville 256	1312 ab	6.38	40.8	11.3	5.55
eville 731N	1308 ab	5.67	40.8	11.1	5.30
r 310	1288 abc	6.86	41.6	11.5	5.20
eville 213	1216 bcd	5.68	41.0	10.9	5.60
24	1114 cde	5.73	41.3	11.8	5.40
aster 303	1066 de	6.64	40.2	12.5	5.00
a SJ-5	994 e	6.40	41.2	12.3	5.00
713	944 e	6.74	34.7	12.8	4.65
/13	Span length (	inches)	Color	imeter	Yarn
/13		inches) 50%	$\frac{Color}{R_d}$	imeter  Hunter's  b value	Yarn tenacity (cN/tex)
	Span length (		$\frac{\text{Color}}{R_d}$	Hunter's	tenacity
apine 55 apine 61	Span length (	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
apine 55	Span length ( 2.5%	0.57	75.7	Hunter's b value	tenacity (cN/tex)
apine 55 apine 61	Span length ( 2.5% 1.19 1.19	50% 0.57 .60	75.7 76.3	Hunter's b value  8.5 8.4	tenacity (cN/tex) 12.4 12.4
apine 55 apine 61 56	Span length ( 2.5% 1.19 1.19 1.17	0.57 .60 .58	75.7 76.3 75.6	Hunter's b value  8.5 8.4 8.3	tenacity (cN/tex) 12.4 12.4 12.5
apine 55 apine 61 56	Span length ( 2.5% 1.19 1.19 1.17 1.20	50% 0.57 .60 .58 .58	75.7 76.3 75.6 76.4	8.5 8.4 8.3 8.9	tenacity (cN/tex) 12.4 12.4 12.5 11.9
apine 55 apine 61 56 eville 256 eville 731N	Span length ( 2.5% 1.19 1.19 1.17 1.20 1.19	50% 0.57 .60 .58 .58 .55	75.7 76.3 75.6 76.4 76.4	8.5 8.4 8.3 8.9 8.3	tenacity (cN/tex) 12.4 12.4 12.5 11.9
apine 55 apine 61 56 eville 256 eville 731N	Span length ( 2.5% 1.19 1.19 1.17 1.20 1.19 1.23	50%  0.57 .60 .58 .58 .55 .60	75.7 76.3 75.6 76.4 76.4 73.5	8.5 8.4 8.3 8.9 8.3 8.8	tenacity (cN/tex) 12.4 12.4 12.5 11.9 11.7
apine 55 apine 61 56 eville 256 eville 731N r 310	Span length ( 2.5% 1.19 1.19 1.17 1.20 1.19 1.23 1.19	50%  0.57 .60 .58 .58 .55 .60 .60	75.7 76.3 75.6 76.4 76.4 73.5 75.2	8.5 8.4 8.3 8.9 8.3 8.8	tenacity (cN/tex) 12.4 12.4 12.5 11.9 11.7 13.3 12.0
apine 55 apine 61 56 eville 256 eville 731N r 310 eville 213	Span length ( 2.5%  1.19 1.19 1.17 1.20 1.19 1.23 1.19 1.20	50%  0.57 .60 .58 .58 .55 .60 .60	75.7 76.3 75.6 76.4 76.4 73.5 75.2 73.8	8.5 8.4 8.3 8.9 8.3 8.8 8.7 8.8	tenacity (cN/tex) 12.4 12.4 12.5 11.9 11.7 13.3 12.0 12.9

Table 15.--Delta test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 731N	1175 a	6.20	39.4	12.4	5.15
DES 56	1157 a	5.65	37.5	12.4	5.15
Stoneville 213	1110 ab	6.20	36.7	12.8	5.45
Stoneville 256	1106 ab	5.95	38.9	11.9	5.45
Deltapine 55	1018 ab	5.75	40.2	11.5	5.30
Deltapine 61	935 b	6.15	38.6	12.6	5.55
Coker 310	930 b	5.95	38.5	13.4	5.10
DES 24	913 b	6.10	38.7	13.5	5.25
Paymaster 303	662 c	6.50	38.1	14.4	5.30
Rex 713	658 c	6.30	34.2	14.0	5.10
Acala SJ-5	418 d	6.45	37.2	12.5	5.00
	Span length ( 2.5%	50%	$\overline{R_{d}}$	Hunter's b value	Yarn tenacity (cN/tex)
Stoneville 731N	1.10	0.49	69.7	7.8	12.0
DES 56	1.10	.49	69.3	8.2	11.5
Stoneville 213	1.11	.52	71.0	8.5	10.8
Stoneville 256	1.12	.50	70.1	8.4	11.5
Deltapine 55	1.14	.51	70.3	7.9	12.3
Deltapine 61	1.13	.53	70.0	7.8	11.8
Coker 310	1.18	.54	69.2	8.1	12.5
DES 24	1.14	.53	69.0	8.5	12.1
Paymaster 303	1.06	.47	69.9	9.0	10.9
Rex 713	1.07	.47	68.5	8.7	10.5
Acala SJ-5	1.14	.54	70.1	8.0	14.2

Table 16.--Delta test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
DES 56	1125 a	4.83	36.0	10.8	4.55
Deltapine 61	1055 b	5.41	35.9	10.5	4.85
Coker 310	998 bc	5.73	35.6	11.6	4.40
Stoneville 213	994 bc	5.23	35.4	11.6	4.70
Stoneville 256	965 cd	5.23	35.7	10.5	4.60
DES 24	964 cd	5.63	35.1	12.3	4.50
Deltapine 55	956 cd	4.99	36.8	10.0	4.50
Stoneville 731N	950 cd	4.99	36.5	10.9	4.65
Paymaster 303	915 d	6.27	34.6	12.5	4.55
Rex 713	821 e	6.04	31.8	13.1	4.25
Acala SJ-5	804 e	5.91	35.6	12.4	4.40
	Chan langth (	inches)	Color	imot on	Vame
	Span length (	inches) 50%	$\frac{Color}{R_d}$	rimeter  Hunter's  b value	Yarn tenacity (cN/tex)
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
	1.18	0.56	R _d 69.7	Hunter's b value	tenacity (cN/tex)
Deltapine 61	1.18 1.20	50% 0.56 .57	69.7 73.4	Hunter's b value  7.5 7.0	tenacity (cN/tex) 12.2 13.1
Deltapine 61 Coker 310	1.18 1.20 1.22	0.56 .57 .56	69.7 73.4 68.4	Hunter's b value  7.5 7.0 7.2	tenacity (cN/tex) 12.2 13.1 14.3
Deltapine 61 Coker 310 Stoneville 213	1.18 1.20 1.22 1.19	0.56 .57 .56	69.7 73.4 68.4 69.3	Hunter's b value  7.5 7.0 7.2 7.2	tenacity (cN/tex) 12.2 13.1 14.3 11.8
Deltapine 61 Coker 310 Stoneville 213 Stoneville 256	1.18 1.20 1.22 1.19 1.21	50%  0.56 .57 .56 .56 .54	69.7 73.4 68.4 69.3 71.1	Hunter's b value  7.5 7.0 7.2 7.2 6.9	tenacity (cN/tex) 12.2 13.1 14.3 11.8 13.2
Deltapine 61  Coker 310  Stoneville 213  Stoneville 256  DES 24	1.18 1.20 1.22 1.19 1.21 1.20	0.56 .57 .56 .56 .54	69.7 73.4 68.4 69.3 71.1 68.9	Hunter's b value  7.5 7.0 7.2 7.2 6.9 7.1	tenacity (cN/tex) 12.2 13.1 14.3 11.8 13.2 13.5
DES 24 Deltapine 55	1.18 1.20 1.22 1.19 1.21 1.20 1.18	50%  0.56 .57 .56 .56 .54 .55	69.7 73.4 68.4 69.3 71.1 68.9 73.2	Hunter's b value  7.5 7.0 7.2 7.2 6.9 7.1 7.2	tenacity (cN/tex) 12.2 13.1 14.3 11.8 13.2 13.5 14.0
Deltapine 61  Coker 310  Stoneville 213  Stoneville 256  DES 24  Deltapine 55  Stoneville 731N	1.18 1.20 1.22 1.19 1.21 1.20 1.18	50%  0.56 .57 .56 .56 .54 .55 .54	69.7 73.4 68.4 69.3 71.1 68.9 73.2 70.6	Hunter's b value  7.5 7.0 7.2 7.2 6.9 7.1 7.2 6.8	tenacity (cN/tex) 12.2 13.1 14.3 11.8 13.2 13.5 14.0 11.5
Deltapine 61  Coker 310  Stoneville 213  Stoneville 256  DES 24  Deltapine 55  Stoneville 731N  Paymaster 303	1.18 1.20 1.22 1.19 1.21 1.20 1.18 1.18	50%  0.56 .57 .56 .56 .54 .55 .54 .55	89.7 73.4 68.4 69.3 71.1 68.9 73.2 70.6 66.9	Hunter's b value  7.5 7.0 7.2 7.2 6.9 7.1 7.2 6.8 6.7	tenacity (cN/tex) 12.2 13.1 14.3 11.8 13.2 13.5 14.0 11.5 13.0
Deltapine 61  Coker 310  Stoneville 213  Stoneville 256  DES 24  Deltapine 55  Stoneville 731N	1.18 1.20 1.22 1.19 1.21 1.20 1.18	50%  0.56 .57 .56 .56 .54 .55 .54	69.7 73.4 68.4 69.3 71.1 68.9 73.2 70.6	Hunter's b value  7.5 7.0 7.2 7.2 6.9 7.1 7.2 6.8	tenacity (cN/tex) 12.2 13.1 14.3 11.8 13.2 13.5 14.0 11.5

Table 17.--Delta test: Yield, boll, and spinning data for Tunica, Miss.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1052 a	5.63	38.5	11.0	5.10
DES 24	1049 a	5.71	38.8	11.6	4.75
Deltapine 55	1028 ab	5.13	40.0	10.7	4.50
DES 56	1018 ab	5.15	38.1	10.9	4.70
Deltapine 61	1014 ab	5.79	38.5	11.0	5.00
Coker 310	1000 ab	6.22	38.0	11.8	4.75
Stoneville 731N	977 abc	5.07	39.5	11.1	4.85
Stoneville 256	928 bc	5.22	39.2	10.6	5.00
Rex 713	879 cd	6.11	36.1	12.0	4.40
Paymaster 303	803 d	6.14	37.2	12.2	4.35
Acala SJ-5	654 e	6.69	39.1	12.6	4.50
	Span length (	inches)	Color	rimeter	Yarn
	Span length (	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Stoneville 213		7	$\frac{\text{Color}}{R_d}$	Hunter's	tenacity
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
Stoneville 213 DES 24	1.17	0.56	77.8	Hunter's b value	tenacity (cN/tex)
Stoneville 213	1.17 1.18	0.56 .55	77.8 76.9	Hunter's b value  8.2 8.3	tenacity (cN/tex) 11.7 12.7
Stoneville 213  DES 24  Deltapine 55  DES 56	1.17 1.18 1.14	0.56 .55 .51	77.8 76.9 77.7	Hunter's b value  8.2 8.3 7.8	tenacity (cN/tex) 11.7 12.7 13.2
Stoneville 213  DES 24  Deltapine 55	1.17 1.18 1.14 1.17 1.18	0.56 .55 .51 .55	77.8 76.9 77.7 77.1	Hunter's b value  8.2 8.3 7.8 8.3	tenacity (cN/tex) 11.7 12.7 13.2 13.1 12.8
Stoneville 213  DES 24  Deltapine 55  DES 56  Deltapine 61	1.17 1.18 1.14 1.17	50%  0.56 .55 .51 .55 .55	77.8 76.9 77.7 77.1 78.7	Hunter's b value  8.2 8.3 7.8 8.3 8.2	tenacity (cN/tex) 11.7 12.7 13.2 13.1
Stoneville 213  DES 24  Deltapine 55  DES 56  Deltapine 61  Coker 310	1.17 1.18 1.14 1.17 1.18 1.20	0.56 .55 .51 .55 .55	77.8 76.9 77.7 77.1 78.7 76.5	Hunter's b value  8.2 8.3 7.8 8.3 8.2 8.4	tenacity (cN/tex) 11.7 12.7 13.2 13.1 12.8 13.6
Stoneville 213  DES 24  Deltapine 55  DES 56  Coker 310  Stoneville 731N	1.17 1.18 1.14 1.17 1.18 1.20 1.13	0.56 .55 .51 .55 .55 .58	77.8 76.9 77.7 77.1 78.7 76.5 78.6	Hunter's b value  8.2 8.3 7.8 8.3 8.2 8.4 7.8	tenacity (cN/tex)  11.7 12.7 13.2 13.1 12.8 13.6 11.8
Stoneville 213  DES 24  Deltapine 55  DES 56  Deltapine 61  Coker 310  Stoneville 731N  Stoneville 256	1.17 1.18 1.14 1.17 1.18 1.20 1.13 1.13	0.56 .55 .51 .55 .55 .58 .51	77.8 76.9 77.7 77.1 78.7 76.5 78.6 78.2	Hunter's b value  8.2 8.3 7.8 8.3 8.2 8.4 7.8 8.2	tenacity (cN/tex)  11.7 12.7 13.2 13.1 12.8 13.6 11.8 12.7

Table 18.--Delta test: Yield, boll, and spinning data for Clarkedale, Ark.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
Deltapine 61	980 a	5.94	40.8	10.4	4.70
Deltapine 55	953 a	5.68	40.8	10.5	4.55
Stoneville 213	946 a	5.81	38.3	12.0	4.90
Coker 310	936 a	5.12	41.9	11.2	4.75
Paymaster 303	886 ab	6.24	38.0	12.1	4.60
Stoneville 731N	875 ab	5.35	39.9	10.0	5.25
Stoneville 256	856 ab	5.31	40.6	10.8	5.00
DES 56	835 ab	5.37	38.8	11.3	4.90
DES 24	832 ab	5.92	39.2	10.6	4.70
Rex 713	634 b	6.00	36.0	11.3	4.45
Acala SJ-5	619 b	6.41	38.8	12.3	4.50
	Span length (i	nches)	Color	imeter	Yarn
	Span length (i	nches) 50%	$\frac{Color}{R_d}$	imeter  Hunter's b value	Yarn tenacity (cN/tex)
Deltapine 61			$\frac{\text{Color}}{R_d}$	Hunter's	tenacity
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
Deltapine 61	1.19	0.54	76.5	Hunter's b value	tenacity (cN/tex)
Deltapine 61 Deltapine 55	1.19 1.17	0.54 .55	76.5 78.0	Hunter's b value  7.6 8.2	tenacity (cN/tex) 13.0 13.1
Deltapine 61 Deltapine 55 Stoneville 213	1.19 1.17 1.10	0.54 .55 .49	76.5 78.0 78.0	Hunter's b value  7.6 8.2 9.0	tenacity (cN/tex) 13.0 13.1 11.7
Deltapine 61 Deltapine 55 Stoneville 213 Coker 310	1.19 1.17 1.10 1.19	0.54 .55 .49 .55	76.5 78.0 78.0 75.4	Hunter's b value  7.6 8.2 9.0 7.8	tenacity (cN/tex) 13.0 13.1 11.7
Deltapine 61  Deltapine 55  Stoneville 213  Coker 310  Paymaster 303	1.19 1.17 1.10 1.19 1.10	0.54 .55 .49 .55	76.5 78.0 78.0 75.4 76.7	Hunter's b value  7.6 8.2 9.0 7.8 8.2	tenacity (cN/tex) 13.0 13.1 11.7 13.1 11.7
Deltapine 61  Deltapine 55  Stoneville 213  Coker 310  Paymaster 303  Stoneville 731N	1.19 1.17 1.10 1.19 1.10 1.09	0.54 .55 .49 .55 .49 .48	76.5 78.0 78.0 75.4 76.7 79.0	Hunter's b value  7.6 8.2 9.0 7.8 8.2 8.3	13.0 13.1 11.7 13.1 11.7
Deltapine 61 Deltapine 55 Stoneville 213 Coker 310 Paymaster 303 Stoneville 731N Stoneville 256 DES 56	1.19 1.17 1.10 1.19 1.10 1.09 1.14	0.54 .55 .49 .55 .49 .48	76.5 78.0 78.0 75.4 76.7 79.0 77.0	Hunter's b value  7.6 8.2 9.0 7.8 8.2 8.3 8.3	tenacity (cN/tex) 13.0 13.1 11.7 13.1 11.7 12.0 12.3
Deltapine 61  Deltapine 55  Stoneville 213  Coker 310  Paymaster 303  Stoneville 731N  Stoneville 256	1.19 1.17 1.10 1.19 1.10 1.09 1.14 1.17	0.54 .55 .49 .55 .49 .48 .52	76.5 78.0 78.0 75.4 76.7 79.0 77.0 78.2	Hunter's b value  7.6 8.2 9.0 7.8 8.2 8.3 8.3 8.6	tenacity (cN/tex) 13.0 13.1 11.7 13.1 11.7 12.0 12.3 12.3

Table 19.--Delta test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	857 a	5.35	40.1	12.7	5.70
Deltapine 55	795 ab	4.83	41.3	11.2	5.45
Stoneville 731N	784 ab	4.73	40.4	12.1	5.80
DES 56	780 ab	5.09	39.7	11.8	5.60
Coker 310	719 abc	5.54	39.4	10.2	5.10
Stoneville 256	693 abcd	5.17	38.4	11.2	5.65
DES 24	691 abcd	5.04	38.8	12.5	5.25
Rex 713	670 bcd	5.71	35.9	13.7	5.05
Deltapine 61	645 bcd	5.54	39.5	11.5	5.85
Paymaster 303	568 cd	5.45	39.5	13.2	5.35
Acala SJ-5	514 d	5.76	39.8	13.4	5.25
	Snan length (ir	nches)	Colori	meter	Yarn
	Span length (ir 2.5%	nches) 50%	Colorii R _d	Meter Hunter's b value	Yarn tenacity (cN/tex)
Stoneville 213		the state of the s		Hunter's	tenacity
Stoneville 213 Deltapine 55	2.5%	0.57	$R_d$	Hunter's b value	tenacity (cN/tex)
Deltapine 55	1.16	50%	77.8	Hunter's b value	tenacity (cN/tex)
Deltapine 55 Stoneville 731N	1.16 1.18	0.57 55	77.8 76.6	Hunter's b value  9.5 8.9	tenacity (cN/tex)
Deltapine 55 Stoneville 731N DES 56	1.16 1.18 1.14	0.57 .55 .53	77.8 76.6 77.9	Hunter's b value  9.5 8.9 8.7	tenacity (cN/tex) 12.1 12.0 12.0
Deltapine 55 Stoneville 731N	1.16 1.18 1.14 1.16	0.57 .55 .53 .54	77.8 76.6 77.9 76.6	Hunter's b value  9.5 8.9 8.7 9.0	tenacity (cN/tex) 12.1 12.0 12.0 12.3
Deltapine 55 Stoneville 731N DES 56 Coker 310	1.16 1.18 1.14 1.16 1.21	0.57 .55 .53 .54	77.8 76.6 77.9 76.6 75.9	Hunter's b value  9.5 8.9 8.7 9.0 9.2	tenacity (cN/tex) 12.1 12.0 12.0 12.3 14.0
Deltapine 55  Stoneville 731N  DES 56  Coker 310  Stoneville 256	1.16 1.18 1.14 1.16 1.21 1.16	0.57 .55 .53 .54 .58	77.8 76.6 77.9 76.6 75.9	Hunter's b value  9.5 8.9 8.7 9.0 9.2 9.4	tenacity (cN/tex) 12.1 12.0 12.0 12.3 14.0 12.1
Deltapine 55  Stoneville 731N  DES 56  Coker 310  Stoneville 256  DES 24	1.16 1.18 1.14 1.16 1.21 1.16 1.18	0.57 .55 .53 .54 .58 .55	77.8 76.6 77.9 76.6 75.9 77.7 74.7	Hunter's b value  9.5 8.9 8.7 9.0 9.2 9.4 9.0	tenacity (cN/tex) 12.1 12.0 12.0 12.3 14.0 12.1 12.6
Deltapine 55  Stoneville 731N  DES 56  Coker 310  Stoneville 256  DES 24  Rex 713	1.16 1.18 1.14 1.16 1.21 1.16 1.18 1.14	0.57 .55 .53 .54 .58 .55 .57	77.8 76.6 77.9 76.6 75.9 77.7 74.7 76.6	Hunter's b value  9.5 8.9 8.7 9.0 9.2 9.4 9.0 9.1	tenacity (cN/tex) 12.1 12.0 12.0 12.3 14.0 12.1 12.6 11.4

Table 20.--Delta test: Yield, boll, and spinning data for Ridgely, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 256	513 a	5.40	39.9	10.4	5.15
Stoneville 213	469 ab	5.23	39.2	10.2	5.35
Stoneville 731N	450 abc	4.88	40.2	10.2	5.25
Coker 310	412 bcd	5.81	39.4	10.9	4.90
DES 56	382 bcde	4.58	37.7	10.0	4.70
Deltapine 61	371 bcde	5.05	39.3	10.1	5.20
DES 24	362 cde	5.40	38.8	11.0	5.00
Deltapine 55	324 de	5.09	40.7	9.4	4.70
Rex 713	312 de	5.44	35.3	11.8	4.60
Paymaster 303	305 e	6.04	37.8	11.3	4.70
Acala SJ-5	150 f	6.02	37.2	11.5	4.85
	Span longth (	(inches)	Color	rimotor	Vonn
	Span length (	(inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Stoneville 256		<u>`</u>	$\frac{\text{Color}}{R_d}$	Hunter's	tenacity
Stoneville 213	1.11 1.08	0.51 .50	74.9 74.3	Hunter's b value  8.0 8.6	tenacity (cN/tex)
Stoneville 213	1.11	0.51	74.9	Hunter's b value	tenacity (cN/tex)
Stoneville 213 Stoneville 731N	1.11 1.08	0.51 .50	74.9 74.3	Hunter's b value  8.0 8.6	tenacity (cN/tex)
Stoneville 213 Stoneville 731N Coker 310	1.11 1.08 1.10	0.51 .50 .49	74.9 74.3 73.8	Hunter's b value  8.0 8.6 8.2	tenacity (cN/tex) 11.3 11.3 11.0
Stoneville 213 Stoneville 731N Coker 310 DES 56	1.11 1.08 1.10 1.16	0.51 .50 .49 .52	74.9 74.3 73.8 73.3	Hunter's b value  8.0 8.6 8.2 8.5	tenacity (cN/tex) 11.3 11.3 11.0 12.3
Stoneville 213         Stoneville 731N         Coker 310         DES 56         Deltapine 61	1.11 1.08 1.10 1.16 1.13 1.12 1.12	0.51 .50 .49 .52 .54	74.9 74.3 73.8 73.3 74.5	Hunter's b value  8.0 8.6 8.2 8.5 8.0 8.3 8.8	tenacity (cN/tex)  11.3 11.3 11.0 12.3 12.2 11.8 11.9
Stoneville 213         Stoneville 731N         Coker 310         DES 56         Deltapine 61         DES 24	1.11 1.08 1.10 1.16 1.13 1.12	0.51 .50 .49 .52 .54	74.9 74.3 73.8 73.3 74.5 74.4	Hunter's b value  8.0 8.6 8.2 8.5 8.0 8.3	11.3 11.3 11.0 12.3 12.2 11.8
Stoneville 213         Stoneville 731N         Coker 310         DES 56         Deltapine 61         DES 24         Deltapine 55	1.11 1.08 1.10 1.16 1.13 1.12 1.12	0.51 .50 .49 .52 .54 .54	74.9 74.3 73.8 73.3 74.5 74.4 74.1	Hunter's b value  8.0 8.6 8.2 8.5 8.0 8.3 8.8	tenacity (cN/tex)  11.3 11.3 11.0 12.3 12.2 11.8 11.9
Stoneville 256 Stoneville 213 Stoneville 731N Coker 310 DES 56 Deltapine 61 DES 24 Deltapine 55 Rex 713 Paymaster 303	1.11 1.08 1.10 1.16 1.13 1.12 1.12	0.51 .50 .49 .52 .54 .54	74.9 74.3 73.8 73.3 74.5 74.4 74.1 75.4	Hunter's b value  8.0 8.6 8.2 8.5 8.0 8.3 8.8 8.2	tenacity (cN/tex)  11.3 11.3 11.0 12.3 12.2 11.8 11.9 11.6

# CENTRAL REGIONAL COTTON VARIETY TEST

Table 21.--Central test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	796 a	5.18 c	38.5 b	10.5 с	4.66 c
Stoneville 256	773 ab	5.23 c	37.5 bc	10.5 c	5.08 a
Deltapine 55	770 ab	5.01 cd	40.2 a	9.4 d	4.91 ab
Stoneville 731N	716 ab	4.85 d	37.4 c	10.5 с	4.81 bc
Deltapine 16	637 abc	5.55 ab	37.4 c	10.8 bc	4.86 Ъ
Stoneville 213	635 abc	5.26 bc	37.7 bc	10.7 bc	5.08 a
Coker 310	601 abc	5.27 bc	37.4 c	11.0 b	4.66 cd
Paymaster 303	565 bc	5.76 a	36.0 d	11.6 a	4.51 d
Acala SJ-5	476 c	5.60 a	38.1 bc	11.6 a	4.57 d
	Span length (	inches)	Color	rimeter	Yarn
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
McNair 220	1.08 ab	0.49 b	65.0 d	7.3 e	12.8 b
Stoneville 256	1.10 a	.50 Ъ	68.2 b	7.3 e	11.4 e
Deltapine 55	1.08 ab	.48 b	68.2 b	7.5 de	12.1 c
Stoneville 731N	1.10 a	.49 b	67.1 bc	7.4 d	11.5 de
Deltapine 16	1.10 a	.49 b	70.5 a	7.7 cd	11.9 cd
		FO 1	67.7 bc	7.8 bc	11.6 de
Stoneville 213	1.08 ab	.50 Ъ	07 - 7 - 100	7.000	2210 00
Stoneville 213	1.08 ab 1.11 a	.50 b	66.5 c	8.0 ab	12.1 c
*					

Table 22.--Central test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
College Station, TX	919 a	5.38 ab	35.9 c	10.9 ab	4.57 c
Nueces County, TX . Weslaco, TX	926 b 582 c	5.32 b 5.56 a	38.5 b 35.4 c	10.3 c 11.1 a	4.77 b 4.48 c
Bossier City, LA	426 d	4.95 c	41.4 a	10.7 b	5.35 a
	Span length (	inches)	$\frac{Color}{R_d}$	Hunter's	Yarn tenacity
				b value	(cN/tex)
College Station, TX	1.14 a	0.50 b	63.7 c	6.2 d	11.9 bc
College Station, TX Nueces County, TX .	1.14 a 1.02 c	0.50 b .44 d	63.7 c 63.1 c	6.2 d 7.3 c	11.9 bc 11.6 c

Table 23.--Central test: Yield, boll, and spinning data for College Station, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	1213 a	5.05	38.8	9.3	4.75
McNair 220	1097 ab	5.20	37.1	11.0	4.40
Stoneville 731N	1077 abc	4.83	35.6	10.6	4.60
Stoneville 256	941 bcd	5.56	35.2	11.0	4.80
Coker 310	851 bcd	5.43	35.8	10.8	4.30
Stoneville 213	836 cd	5.38	36.0	10.6	4.75
Paymaster 303	769 d	5.57	34.5	11.9	4.55
Deltapine 16	769 d	5.60	34.4	10.8	4.45
Acala SJ-5	716 d	5.79	35.8	12.1	4.55
	Span length (	inches) 50%	$\frac{Color}{R_{d}}$	Hunter's b value	Yarn tenacity (cN/tex)
Deltapine 55	1.14	0.49	64.4	6.0	12.0
McNair 220	1.13	.50	60.3	6.0	12.4
Stoneville 731N	1.14	.49	63.2	5.7	11.2
Stoneville 256	1.17	Г1	65.5	ГО	11.2
	1.1/	.51	05.5	5.9	
Coker 310	1.17	.48	64.2	6.9	10.5
Coker 310 Stoneville 213		.48 .51	64.2 63.3	6.9 6.3	10.5 11.5
	1.10	.48 .51 .52	64.2 63.3 61.1	6.9 6.3 6.6	10.5 11.5 11.6
Stoneville 213	1.10 1.14	.48 .51	64.2 63.3	6.9 6.3	10.5 11.5

Table 24.--Central test: Yield, boll, and spinning data for Nueces County, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
Stoneville 256	1019 a	5.32	38.5	10.2	5.10
McNair 220	885 ab	5.68	40.3	9.9	4.45
Deltapine 16	768 abc	5.69	38.5	10.7	5.00
Coker 310	720 abc	5.09	38.8	10.3	4.90
Stoneville 731N	696 bc	4.73	38.8	9.6	4.85
Paymaster 303	662 bc	5.75	36.5	10.7	4.35
Deltapine 55	651 bc	5.12	40.4	9.6	5.00
Stoneville 213	634 bc	5.34	38.0	10.9	5.00
Acala SJ-5	498 c	5.19	37.1	11.2	4.35
	Span length (	inches)		imeter	Yarn
	Span length (	inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Stoneville 256	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
		0.44		Hunter's	tenacity (cN/tex)
McNair 220	1.00	50%	R _d 62.7	Hunter's b value	tenacity (cN/tex)
McNair 220 Deltapine 16	1.00	0.44 .45 .46	62.7 59.8	Hunter's b value  6.7 6.9	tenacity (cN/tex)
McNair 220 Deltapine 16 Coker 310	1.00 1.04 1.06	0.44 .45	62.7 59.8 65.7	Hunter's b value  6.7 6.9 7.2	tenacity (cN/tex) 11.3 12.8 11.0
McNair 220 Deltapine 16 Coker 310	1.00 1.04 1.06 1.02	0.44 .45 .46 .43	62.7 59.8 65.7 62.0	Hunter's b value  6.7 6.9 7.2 7.6	tenacity (cN/tex) 11.3 12.8 11.0 12.1
McNair 220  Deltapine 16  Coker 310  Stoneville 731N	1.00 1.04 1.06 1.02 1.01	0.44 .45 .46 .43 .45	62.7 59.8 65.7 62.0 64.6	Hunter's b value  6.7 6.9 7.2 7.6 7.3	tenacity (cN/tex) 11.3 12.8 11.0 12.1 11.3
	1.00 1.04 1.06 1.02 1.01	0.44 .45 .46 .43 .45	62.7 59.8 65.7 62.0 64.6 63.5	Hunter's b value  6.7 6.9 7.2 7.6 7.3 8.0	tenacity (cN/tex) 11.3 12.8 11.0 12.1 11.3 11.0

Table 25.--Central test: Yield, boll, and spinning data for Weslaco, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint	Seed index	Micronaire reading
McNair 220	831 a	5.33	34.5	11.1	4.30
Deltapine 55	666 Ъ	5.19	37.6	9.6	4.45
Stoneville 731N	644 bc	5.10	35.4	11.1	4.70
Stoneville 256	590 bcd	5.32	35.3	10.7	4.85
Stoneville 213	576 bcd	5.58	35.5	11.0	4.90
Coker 310	551 cd	5.88	34.2	11.9	4.30
Deltapine 16	523 d	5.65	34.8	11.2	4.50
Paymaster 303	492 d	6.37	32.3	12.5	4.15
Acala SJ-5	369 e	5.65	39.2	10.9	4.20
	Span length (2.5%	inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
McNair 220	1.15	0.54	70.5	8.6	13.4
Deltapine 55	1.12	.51	71.7	8.7	13.4
Stoneville 731N	1.15	.54	69.1	8.4	12.4
Stoneville 256	1.17	.55	72.4	8.8	12.5
Stoneville 213	1.15	.57	70.8	8.6	13.0
Coker 310	1.21	.57	69.7	9.0	13.6
Deltapine 16	1.17	.54	72.4	8.7	12.6
Paymaster 303	1.10	.51	72.4	9.0	12.1
Acala SJ-5	1.16	. 57	70.4	8.7	14.9

Table 26.--Central test: Yield, boll, and spinning data for Bossier City, La.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	550 a	4.70	44.1	9.3	5.45
Stoneville 256	543 a	4.74	41.0	10.2	5.60
Stoneville 213	494 ab	4.74	41.5	10.2	5.70
Deltapine 16	490 ab	5.26	42.0	10.6	5.50
Stoneville 731N	445 abc	4.76	39.7	10.8	5.10
McNair 220	370 bc	4.52	42.3	10.2	5.50
Paymaster 303	338 bc	. 5.38	40.6	11.5	5.00
Acala SJ-5	323 c	5.79	40.5	12.2	5.20
Coker 310	282 c	4.68	41.1	11.1	5.15
	Span length (	inches)	Color	imeter	Yarn
	Span length (	inches) 50%	$\frac{Color}{R_d}$	imeter  Hunter's  b value	Yarn tenacity (cN/tex)
Deltapine 55			$\frac{\text{Color}}{R_d}$	Hunter's	tenacity
Deltapine 55 Stoneville 256	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
•	1.05	0.49	74.3	Hunter's b value	tenacity (cN/tex)
Stoneville 256	1.05	0.49 .49	74.3 72.4	Hunter's b value  8.5 8.0	tenacity (cN/tex) 11.7 10.6
Stoneville 256 Stoneville 213 Deltapine 16 Stoneville 731N	1.05 1.08 1.03 1.04 1.11	0.49 .49 .48 .48	74.3 72.4 73.4 75.8 71.5	Hunter's b value  8.5 8.0 8.6 8.5 8.2	tenacity (cN/tex) 11.7 10.6 11.5 12.0 11.3
Stoneville 256 Stoneville 213 Deltapine 16 Stoneville 731N McNair 220	1.05 1.08 1.03 1.04 1.11 1.02	0.49 .49 .48 .48 .49	74.3 72.4 73.4 75.8 71.5 69.5	Hunter's b value  8.5 8.0 8.6 8.5	tenacity (cN/tex) 11.7 10.6 11.5 12.0
Stoneville 256 Stoneville 213 Deltapine 16 Stoneville 731N McNair 220 Paymaster 303	1.05 1.08 1.03 1.04 1.11 1.02 1.02	0.49 .49 .48 .48 .49 .49	74.3 72.4 73.4 75.8 71.5	Hunter's b value  8.5 8.0 8.6 8.5 8.2	tenacity (cN/tex) 11.7 10.6 11.5 12.0 11.3 12.5 12.0
Stoneville 256 Stoneville 213 Deltapine 16 Stoneville 731N McNair 220	1.05 1.08 1.03 1.04 1.11 1.02	0.49 .49 .48 .48 .49	74.3 72.4 73.4 75.8 71.5 69.5	Hunter's b value  8.5 8.0 8.6 8.5 8.2 7.9	tenacity (cN/tex) 11.7 10.6 11.5 12.0 11.3 12.5

## PLAINS REGIONAL COTTON VARIETY TEST

Table 27.--Plains test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lockett 77	531 a	5.45 cdefg	36.5 cd	11.8 efg	4.40 hij
Tamcot Sp 21S	525 a	5.52 cdef	37.6 ab	11.7 efg	4.35 ij
Westburn M	519 a	5.89 bc	35.2 e	11.9 efg	4.66 fg
Stoneville 213	504 ab	5.07 gh	36.4 cd	11.9 efg	4.94 cde
Coker 5110	484 abc	5.53 cdef	36.9 bc	11.8 efg	4.67 fg
PR 68	471 abcd	5.57 bcdef	35.6 e	12.0 defg	4.68 fg
Tamcot 788	470 abcd	5.71 bcde	36.0 de	11.3 gh	4.27 j
Paymaster 303	469 abcd	5.51 cdef	37.2 abc	12.1 cdef	4.75 f
Deltapine SR-2	452 abcd	5.40 efg	34.3 f	10.6 i	4.96 cd
Paymaster 785	446 abcd	5.46 cdefg	37.9 a	12.2 cdef	5.50 b
GSA 71	446 abcd	5.49 cdefg	35.9 de	12.9 bc	5.10 c
Coker 310	438 abcd	5.44 defg	37.2 abc	11.8 efg	4.79 ef
Lankart LX 571	437 abcd	6.55 a	36.0 de	12.9 b	4.81 def
Western 44	432 abcd	5.38 efg	35.3 e	11.6 fgh	4.55 gh
Paymaster 266	432 abcd	5.20 fgh	35.4 e	12.7 bcd	4.93 de
Dunn 119	415 bcd	5.97 b	35.3 e	14.1 a	4.75 f
Stripper 31A	397 d	4.96 h	33.9 f	11.0 hi	5.75 a
	373 d	`5.85 bcd	37.5 ab	12.4 bcde	4.46 hi
Acala 50-5	373 4				
Acala SJ-5	Span length (			imeter  Hunter's  b value	Yarn tenacity (cN/tex)
Lockett 77 Tamcot Sp 21S	Span length ( 2.5% 1.06 ef 1.09 cd	0.49 efg .50 cdef	$\frac{\text{Color}}{R_d}$ 71.1 bcd 73.2 a	Hunter's b value  8.3 e 8.3 cde	tenacity (cN/tex) 12.2 fg 11.5 h
Lockett 77 Tamcot Sp 21S Westburn M	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde	0.49 efg .50 cdef	71.1 bcd 73.2 a 70.6 de	Hunter's b value  8.3 e 8.3 cde 8.7 b	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh
Lockett 77 Tamcot Sp 21S Westburn M Stoneville 213	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c	0.49 efg .50 cdef .50 cdef	$\frac{\text{Color:}}{R_d}$ 71.1 bcd 73.2 a 70.6 de 70.3 de	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh 11.8 gh
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a	0.49 efg .50 cdef .50 cdef .50 cde	71.1 bcd 73.2 a 70.6 de 70.3 de 71.9 b	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.3 cde	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de
Lockett 77  Famcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def	0.49 efg .50 cdef .50 cdef .50 cde .51 cde	Color: $R_d$ 71.1 bcd 73.2 a 70.6 de 70.3 de 71.9 b 71.7 bc	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.2 e	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c	0.49 efg .50 cdef .50 cdef .50 cde .51 cde .50 cde	Color: $\frac{R}{d}$ 71.1 bcd 73.2 a 70.6 de 70.3 de 71.9 b 71.7 bc 70.6 de	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 cde	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc
Lockett 77  Famcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Famcot 788  Paymaster 303	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef	0.49 efg .50 cdef .50 cdef .50 cde .54 a .51 cde .50 cde .49 defg	71.1 bcd 73.2 a 70.6 de 71.9 b 71.7 bc 70.6 de 70.9 cde	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 cde 8.7 bc	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h
Lockett 77  Famcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Pamcot 788  Paymaster 303  Deltapine SR-2	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef	0.49 efg .50 cdef .50 cdef .50 cde .51 cde .50 cde .51 cde .49 defg .51 bcde	Color: $R_d$ 71.1 bcd  73.2 a  70.6 de  71.9 b  71.7 bc  70.6 de  70.9 cde  70.9 cde	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 bcde 8.7 bc 8.7 b	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef 1.96 h	0.49 efg .50 cdef .50 cdef .50 cde .54 a .51 cde .50 cde .49 defg .51 bcde .48 gh	Color: $R_d$ 71.1 bcd  73.2 a  70.6 de  71.9 b  71.7 bc  70.6 de  70.9 cde  70.9 cde  69.0 f	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 bcde 8.7 bc 8.7 b 9.4 a	tenacity (cN/tex)  12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef 11.1 i
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  SSA 71	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef 1.96 h 1.05 f	0.49 efg .50 cdef .50 cdef .50 cde .51 cde .51 cde .49 defg .51 bcde .48 gh .51 bcd	Color: $R_d$ 71.1 bcd  73.2 a  70.6 de  70.3 de  71.7 bc  70.6 de  70.9 cde  70.9 cde  69.0 f  71.2 bcd	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 bcde 8.7 bc 8.7 b 9.4 a 8.4 bcde	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef 11.1 i 11.8 gh
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  SSA 71  Coker 310	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef 1.96 h 1.05 f 1.14 ab	0.49 efg .50 cdef .50 cdef .50 cde .51 cde .50 cde .51 bcde .48 gh .51 bcd .52 ab	Color: $R_d$ 71.1 bcd  73.2 a  70.6 de  70.3 de  71.7 bc  70.6 de  70.9 cde  70.9 cde  69.0 f  71.2 bcd  70.9 cde	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 bcde 8.7 bc 8.7 b 9.4 a 8.4 bcde 8.5 bcde	tenacity (cN/tex) 12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef 11.1 i 11.8 gh 12.9 cd
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  SSA 71  Coker 310  Lankart LX 571	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef 1.96 h 1.05 f 1.14 ab 1.08 cde	0.49 efg .50 cdef .50 cdef .50 cde .51 cde .51 cde .49 defg .51 bcde .48 gh .51 bcd .52 ab .52 bc	Color:  R _d 71.1 bcd  73.2 a  70.6 de  70.3 de  71.7 bc  70.6 de  70.9 cde  70.9 cde  69.0 f  71.2 bcd  70.9 cde  70.9 cde  70.9 cde	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 bcde 8.7 bc 8.7 b 9.4 a 8.4 bcde 8.5 bcde 8.7 bcde	tenacity (cN/tex)  12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef 11.1 i 11.8 gh 12.9 cd 11.6 h
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Pamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  Coker 310  Lankart LX 571  Western 44	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef 1.96 h 1.05 f 1.14 ab 1.08 cde 1.04 g	0.49 efg .50 cdef .50 cdef .50 cde .51 cde .51 cde .49 defg .51 bcde .48 gh .51 bcd .52 ab .52 bc .48 fgh	Color: $R_d$ 71.1 bcd  73.2 a  70.6 de  70.3 de  71.7 bc  70.6 de  70.9 cde  70.9 cde  70.9 cde  70.9 cde  70.9 cde  70.9 cde  70.6 de  70.7 bcd  70.8 cde  70.9 cde	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.2 e 8.5 bcde 8.7 bc 8.7 b 9.4 a 8.4 bcde 8.5 bcde 8.7 bcd 8.7 bcd 8.7 b	tenacity (cN/tex)  12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef 11.1 i 11.8 gh 12.9 cd 11.6 h 12.9 cd 11.6 h 12.0 fgh
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  Coker 310  Lankart LX 571  Western 44  Paymaster 266	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef 1.96 h 1.05 f 1.14 ab 1.08 cde 1.04 g 1.04 g	0.49 efg .50 cdef .50 cdef .50 cde .54 a .51 cde .50 cde .49 defg .51 bcde .48 gh .51 bcd .52 ab .52 bc .48 fgh .51 bc	Color:  R _d 71.1 bcd  73.2 a  70.6 de  70.3 de  71.9 b  71.7 bc  70.6 de  70.9 cde  70.9 cde  69.0 f  71.2 bcd  70.9 cde  70.9 cde  70.9 cde  70.9 cde  70.9 cde	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 bcde 8.7 bc 8.7 b 9.4 a 8.4 bcde 8.5 bcde 8.7 bcd 8.7 bcd 8.7 bcd 8.7 bcd 8.7 bcd	tenacity (cN/tex)  12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef 11.1 i 11.8 gh 12.9 cd 11.6 h 12.9 cd 11.6 h 12.9 cd 11.6 h 12.8 cde
Lockett 77 Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110 PR 68 Tamcot 788 Paymaster 303 Deltapine SR-2 Paymaster 785 Coker 310 Coker 310 Lankart LX 571 Western 44 Paymaster 266 Dunn 119	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef 1.06 ef 1.07 ef 1.08 cde 1.04 g 1.04 g 1.12 b	0.49 efg .50 cdef .50 cdef .50 cde .51 cde .51 cde .49 defg .51 bcde .48 gh .51 bcd .52 ab .52 bc .48 fgh .51 bc	Color:  R _d 71.1 bcd  73.2 a  70.6 de  70.3 de  71.7 bc  70.6 de  70.9 cde  70.9 cde  70.9 cde  70.9 cde  70.9 cde  70.0 de  70.0 de  70.1 bcd  70.2 bcd  70.2 bcd  70.3 de  70.4 de	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.2 e 8.5 bcde 8.7 bc 8.7 b 9.4 a 8.4 bcde 8.5 bcde 8.7 bcd	tenacity (cN/tex)  12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef 11.1 i 11.8 gh 12.9 cd 11.6 h 12.9 cd 11.6 h 12.0 fgh 12.8 cde 13.5 b
Lockett 77  Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  Coker 310  Lankart LX 571  Western 44  Paymaster 266  Dunn 119  Stripper 31A	Span length (2.5%  1.06 ef 1.09 cd 1.08 cde 1.10 c 1.15 a 1.07 def 1.10 c 1.06 ef 1.07 ef 1.96 h 1.05 f 1.14 ab 1.08 cde 1.04 g 1.04 g	0.49 efg .50 cdef .50 cdef .50 cde .54 a .51 cde .50 cde .49 defg .51 bcde .48 gh .51 bcd .52 ab .52 bc .48 fgh .51 bc	Color:  R _d 71.1 bcd  73.2 a  70.6 de  70.3 de  71.9 b  71.7 bc  70.6 de  70.9 cde  70.9 cde  69.0 f  71.2 bcd  70.9 cde  70.9 cde  70.9 cde  70.9 cde  70.9 cde	Hunter's b value  8.3 e 8.3 cde 8.7 b 8.3 cde 8.3 cde 8.5 bcde 8.7 bc 8.7 b 9.4 a 8.4 bcde 8.5 bcde 8.7 bcd 8.7 bcd 8.7 bcd 8.7 bcd 8.7 bcd	tenacity (cN/tex)  12.2 fg 11.5 h 11.7 gh 11.8 gh 12.7 de 12.2 fg 13.3 bc 11.6 h 12.4 ef 11.1 i 11.8 gh 12.9 cd 11.6 h 12.9 cd 11.6 h 12.9 cd 11.6 h 12.8 cde

Table 28.--Plains test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lubbock (Irr), TX Halfway, TX Chickasha (Irr), OK . Chillicothe (Irr), TX Chillicothe (Dry), TX Altus, OK	571 b 571 b 313 c 281 d	6.21 a 5.28 c 6.26 a 4.91 d 4.78 d 5.88 b	37.4 a 36.2 c 37.3 ab 36.4 c 36.9 b 32.5 d	12.4 ab 11.5 d 11.8 cd 11.9 c 12.5 a 12.1 bc	4.99 b 4.15 e 5.16 a 4.87 c 5.23 a 4.38 d
	Span length (in 2.5%	iches) 50%	$\frac{\text{Colorin}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Lubbock (Irr), TX Halfway, TX Chickasha (Irr), OK . Chillicothe (Irr), TX Chillicothe (Dry), TX	1.09 b 1.05 c 1.03 d	0.51 b .50 c .50 c .48 d .50 c	74.0 a 73.3 b 71.8 c 68.5 e 67.8 f	9.4 b 9.8 a 8.6 c 7.7 e 7.4 f	12.3 ab 12.5 a 12.3 ab 11.6 c 12.2 b

Table 29.--Plains test: Combined yield, boll, and spinning data for Halfway and Lubbock, Tex., by cotton variety

ariety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
ockett 77	855 a	5.81	37.4	11.5	4.17
aymaster 785	771 ab	5.84	38.9	12.2	5.30
aymaster 303	769 ab	5.96	37.3	12.2	4.77
amcot 788	769 ab	6.11	36.7	11.5	4.20
amcot SP 21S	767 ab	6.19	38.5	12.2	4.22
R 68	747 b	5.75	36.7	11.8	4.47
SA 71	737 b	5.80	36.5	12.7	4.85
oker 310	732 bc	5.35	37.6	11.1	4.50
tripper 31A	728 bc	4.96	35.1	11.1	5.35
estburn M	726 bc	5.65	35.6	11.6	4.32
aymaster 266	724 bc	5.49	35.3	12.3	4.65
oker 5110	717 bc	5.31	37.2	11.3	4.50
eltapine SR-2	700 bc	5.74	35.2	11.3	4.57
toneville 213	694 bc	4.86	36.8	10.8	4.60
ankart LX 571	691 bc	6.70	37.1	13.3	4.50
unn 119	680 bc	6.49	36.4	14.7	4.80
estern 44	674 c	5.52	36.5	11.4	4.42
cala SJ-5	626 c	5.88	37.9	11.8	4.15
	Span length (	inches)	Color	rimeter	Yarn
	Span length (	inches)		rimeter Hunter's	Yarn tenacity
			$\frac{Color}{R_d}$		
ockett 77				Hunter's	tenacity
ockett 77 aymaster 785	1.07	0.48	$R_d$	Hunter's b value	tenacity (cN/tex)
aymaster 785	1.07	0.48 .49	75.2 70.7	Hunter's b value	tenacity (cN/tex)
aymaster 785 aymaster 303	1.07	0.48	75.2	Hunter's b value  9.4 10.3	tenacity (cN/tex)
aymaster 785 aymaster 303 amcot 788	1.07 1.00 1.06 1.14	0.48 .49 .48 .52	75.2 70.7 72.8	Hunter's b value  9.4 10.3 9.6	tenacity (cN/tex) 12.4 11.8 11.6
aymaster 785 aymaster 303 amcot 788 amcot Sp 21S	1.07 1.00 1.06 1.14 1.12	0.48 .49 .48 .52 .50	75.2 70.7 72.8 72.7 74.0	Hunter's b value  9.4 10.3 9.6 9.8	tenacity (cN/tex) 12.4 11.8 11.6 13.2
aymaster 785 aymaster 303 amcot 788 amcot Sp 21S R 68	1.07 1.00 1.06 1.14 1.12 1.09	0.48 .49 .48 .52 .50	75.2 70.7 72.8 72.7	Hunter's b value  9.4 10.3 9.6 9.8 9.6	tenacity (cN/tex) 12.4 11.8 11.6 13.2 11.5
aymaster 785  aymaster 303  amcot 788  amcot Sp 21S  R 68  SA 71	1.07 1.00 1.06 1.14 1.12 1.09 1.06	0.48 .49 .48 .52 .50 .49	75.2 70.7 72.8 72.7 74.0 74.4 73.9	Hunter's b value  9.4 10.3 9.6 9.8 9.6 9.3	tenacity (cN/tex) 12.4 11.8 11.6 13.2 11.5 12.2
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17	0.48 .49 .48 .52 .50 .49 .51	75.2 70.7 72.8 72.7 74.0 74.4	9.4 10.3 9.6 9.8 9.6 9.3	tenacity (cN/tex) 12.4 11.8 11.6 13.2 11.5 12.2
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310  tripper 31A	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17	0.48 .49 .48 .52 .50 .49 .51	75.2 70.7 72.8 72.7 74.0 74.4 73.9 73.9	9.4 10.3 9.6 9.8 9.6 9.3 9.5	tenacity (cN/tex) 12.4 11.8 11.6 13.2 11.5 12.2 12.2 13.0
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310  tripper 31A  estburn M	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17 .99	0.48 .49 .48 .52 .50 .49 .51 .53 .49	75.2 70.7 72.8 72.7 74.0 74.4 73.9 73.9 72.4	9.4 10.3 9.6 9.8 9.6 9.3 9.5 9.4	tenacity (cN/tex) 12.4 11.8 11.6 13.2 11.5 12.2 12.2 13.0 10.7
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310  tripper 31A  estburn M  aymaster 266	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17 .99 1.08 1.06	50%  0.48 .49 .48 .52 .50 .49 .51 .53 .49 .49 .52	75.2 70.7 72.8 72.7 74.0 74.4 73.9 73.9 72.4 73.3 72.2	9.4 10.3 9.6 9.8 9.6 9.3 9.5 9.4 9.6	tenacity (cN/tex)  12.4 11.8 11.6 13.2 11.5 12.2 12.2 13.0 10.7 11.6
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310  tripper 31A  estburn M  aymaster 266  oker 5110	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17 .99 1.08 1.06 1.16	0.48 .49 .48 .52 .50 .49 .51 .53 .49 .49	75.2 70.7 72.8 72.7 74.0 74.4 73.9 73.9 72.4 73.3 72.2 76.0	9.4 10.3 9.6 9.8 9.6 9.3 9.5 9.4 9.6 9.8	tenacity (cN/tex)  12.4 11.8 11.6 13.2 11.5 12.2 13.0 10.7 11.6 13.5
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310  tripper 31A  estburn M  aymaster 266  oker 5110  eltapine SR-2	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17 .99 1.08 1.06 1.16 1.09	50%  0.48 .49 .48 .52 .50 .49 .51 .53 .49 .49 .52 .54	75.2 70.7 72.8 72.7 74.0 74.4 73.9 73.9 72.4 73.3 72.2 76.0 73.9	9.4 10.3 9.6 9.8 9.6 9.3 9.5 9.4 9.6 9.8	tenacity (cN/tex)  12.4 11.8 11.6 13.2 11.5 12.2 13.0 10.7 11.6 13.5 12.6 12.8
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310  tripper 31A  estburn M  aymaster 266  oker 5110  eltapine SR-2  toneville 213	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17 .99 1.08 1.06 1.16 1.09 1.13	0.48 .49 .48 .52 .50 .49 .51 .53 .49 .49 .52 .54	75.2 70.7 72.8 72.7 74.0 74.4 73.9 73.9 72.4 73.3 72.2 76.0 73.9 75.2	9.4 10.3 9.6 9.8 9.6 9.3 9.5 9.4 9.6 9.8 9.7	tenacity (cN/tex)  12.4 11.8 11.6 13.2 11.5 12.2 12.2 13.0 10.7 11.6 13.5 12.6 12.8 12.2
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310  tripper 31A  estburn M  aymaster 266  oker 5110  eltapine SR-2  toneville 213  ankart LX 571	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17 .99 1.08 1.06 1.16 1.09	0.48 .49 .48 .52 .50 .49 .51 .53 .49 .49 .52 .54	75.2 70.7 72.8 72.7 74.0 74.4 73.9 73.9 72.4 73.3 72.2 76.0 73.9 75.2 74.3	9.4 10.3 9.6 9.8 9.6 9.5 9.7 9.6	tenacity (cN/tex)  12.4 11.8 11.6 13.2 11.5 12.2 12.2 13.0 10.7 11.6 13.5 12.6 12.8 12.2 11.5
aymaster 785  aymaster 303  amcot 788  R 68  SA 71  oker 310  tripper 31A  estburn M  aymaster 266  oker 5110  eltapine SR-2  toneville 213	1.07 1.00 1.06 1.14 1.12 1.09 1.06 1.17 .99 1.08 1.06 1.16 1.09 1.13	0.48 .49 .48 .52 .50 .49 .51 .53 .49 .49 .52 .54	75.2 70.7 72.8 72.7 74.0 74.4 73.9 73.9 72.4 73.3 72.2 76.0 73.9 75.2	9.4 10.3 9.6 9.8 9.6 9.3 9.5 9.4 9.6 9.8 9.7	tenacity (cN/tex)  12.4 11.8 11.6 13.2 11.5 12.2 12.2 13.0 10.7 11.6 13.5 12.6 12.8 12.2

Table 30.--Plains test: Combined yield, boll, and spinning data for Chillicothe, Tex. (irrigated and dryland), and Chickasha and Altus, Okla., by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Westburn M'	416 a	6.01	35.0	12.1	4.83
Stoneville 213	410 ab	5.17	36.3	12.5	5.11
Tamcot Sp 21S	404 abc	5.18	37.1	11.4	4.41
Lockett 77	369 abcd	5.27	36.1	12.0	4.51
Coker 5110	368 abcd	5.64	36.7	12.0	4.76
PR 68	333 abcd	5.47	35.0	12.2	4.78
Deltapine SR-2	328 bcd	5.24	33.9	10.3	5.16
'amcot 788	320 bcde	5.51	35.7	11.2	4.31
Paymaster 303	319 cde	5.28	37.1	12.1	4.75
Western 44	311 cde	5.31	34.6	11.7	4.61
ankart LX 571	310 de	6.47	35.5	12.8	4.97
SSA 71	300 de	5.33	35.6	12.9	5.22
Coker 310	291 de	5.48	37.0	12.1	4.93
aymaster 266	286 de	5.05	35.4	12.9	5.07
Paymaster 785	284 de	5.27	37.5	12.2	5.60
Junn 119	283 e	5.71	34.7	13.8	4.73
Stripper 31A	232 e	4.97	33.3	10.9	5.95
Acala SJ-5	246 e	5.84	37.3	12.7	4.64
	Snan length (	inches)	Color	imeter	Yarn
	Span length (	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Jestburn M				Hunter's	tenacity
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
toneville 213	1.09	0.51	39.2	Hunter's b value	tenacity (cN/tex)
toneville 213 amcot Sp 21S	1.09	50% 0.51 .50	39.2 67.9	Hunter's b value  8.2 7.6	tenacity (cN/tex)
toneville 213 amcot Sp 21S ockett 77	1.09 1.09 1.09 1.08	50% 0.51 .50 .50	39.2 67.9 72.8	Hunter's b value  8.2 7.6 7.7	tenacity (cN/tex) 11.8 11.7 11.6
toneville 213 amcot Sp 21S ockett 77 oker 5110	1.09 1.09 1.09 1.08 1.06	0.51 .50 .50	39.2 67.9 72.8 69.1	Hunter's b value  8.2 7.6 7.7	11.8 11.7 11.6 12.1
toneville 213  Camcot Sp 21S  cockett 77  Coker 5110  R 68	1.09 1.09 1.09 1.08 1.06 1.15	0.51 .50 .50 .50	39.2 67.9 72.8 69.1 69.9	Hunter's b value  8.2 7.6 7.7 7.7	11.8 11.7 11.6 12.1 12.8
toneville 213  amcot Sp 21S  ockett 77  oker 5110  R 68  eltapine SR-2	1.09 1.09 1.08 1.06 1.15 1.06	50%  0.51 .50 .50 .50 .51	39.2 67.9 72.8 69.1 69.9 70.3	Hunter's b value  8.2 7.6 7.7 7.7 7.7	11.8 11.7 11.6 12.1 12.8 12.1
toneville 213 Camcot Sp 21S Cockett 77 Coker 5110 CR 68 Celtapine SR-2 Camcot 788	1.09 1.09 1.08 1.06 1.15 1.06	50%  0.51 .50 .50 .50 .54 .51 .50	39.2 67.9 72.8 69.1 69.9 70.3 69.3	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3	11.8 11.7 11.6 12.1 12.8 12.1 12.3
Tamcot Sp 21S  Cockett 77  Coker 5110  CR 68  Celtapine SR-2  Camcot 788  Caymaster 303	1.09 1.09 1.08 1.06 1.15 1.06 1.06	50%  0.51 .50 .50 .50 .54 .51 .50 .50	39.2 67.9 72.8 69.1 69.9 70.3 69.3 69.5	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3 7.9	tenacity (cN/tex) 11.8 11.7 11.6 12.1 12.8 12.1 12.3 13.3 11.6
Camcot Sp 21S Cockett 77 Coker 5110 CR 68 Celtapine SR-2 Camcot 788 Caymaster 303 Cestern 44	1.09 1.09 1.08 1.06 1.15 1.06 1.06 1.08 1.07	50%  0.51 .50 .50 .50 .51 .50 .54 .51 .50 .50	39.2 67.9 72.8 69.1 69.9 70.3 69.3 69.5 70.0	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3 7.9 8.2	11.8 11.7 11.6 12.1 12.8 12.1 12.3 13.3
Tamcot Sp 21S  Cockett 77  Coker 5110  CR 68  Celtapine SR-2  Camcot 788  Caymaster 303  Cestern 44  Cankart LX 571	1.09 1.09 1.09 1.08 1.06 1.15 1.06 1.06 1.08 1.07	50%  0.51 .50 .50 .50 .54 .51 .50 .50 .50 .48	39.2 67.9 72.8 69.1 69.9 70.3 69.3 69.5 70.0 69.8	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3 7.9 8.2 8.0	tenacity (cN/tex)  11.8 11.7 11.6 12.1 12.8 12.1 12.3 13.3 11.6 11.8
Camcot Sp 21S Cockett 77 Coker 5110 Coker 5110 Coker 588 Camcot 788 Caymaster 303 Caymaster 44 Cankart LX 571 CSA 71	1.09 1.09 1.08 1.06 1.15 1.06 1.06 1.08 1.07 1.03	0.51 .50 .50 .50 .54 .51 .50 .50 .50	39.2 67.9 72.8 69.1 69.9 70.3 69.3 69.5 70.0 69.8 68.7	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3 7.9 8.2 8.0 8.1	tenacity (cN/tex) 11.8 11.7 11.6 12.1 12.8 12.1 12.3 13.3 11.6 11.8 11.6
Stoneville 213  Camcot Sp 21S  Coker 77  Coker 5110  CR 68  Celtapine SR-2  Camcot 788  Caymaster 303  Mestern 44  Cankart LX 571  Coker 310	1.09 1.09 1.08 1.06 1.15 1.06 1.06 1.08 1.07 1.03 1.08	50%  0.51 .50 .50 .50 .54 .51 .50 .50 .50 .48 .52 .51	39.2 67.9 72.8 69.1 69.9 70.3 69.3 69.5 70.0 69.8 68.7 69.8	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3 7.9 8.2 8.0 8.1 7.9	tenacity (cN/tex)  11.8 11.7 11.6 12.1 12.8 12.1 12.3 13.3 11.6 11.8 11.6
Camcot Sp 21S Cockett 77 Coker 5110 CR 68 Camcot 788 Camcot 788 Camcot 788 Caymaster 303 Cankart LX 571 Coker 310 Caymaster 266	1.09 1.09 1.08 1.06 1.15 1.06 1.06 1.08 1.07 1.03 1.08 1.05 1.13	50%  0.51 .50 .50 .50 .54 .51 .50 .50 .50 .51 .50 .51 .50 .51 .52 .51	39.2 67.9 72.8 69.1 69.9 70.3 69.3 69.5 70.0 69.8 68.7 69.8 69.4	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3 7.9 8.2 8.0 8.1 7.9 8.0 8.2	tenacity (cN/tex)  11.8 11.7 11.6 12.1 12.8 12.1 12.3 13.3 11.6 11.6 11.8 11.6 12.9 12.5
Camcot Sp 21S Cokert 77 Coker 5110 Coker 5110 Camcot 788 Camcot 788 Camcot 788 Camcot 788 Camcot 787 Camcot 788 Camcot 78	1.09 1.09 1.08 1.06 1.15 1.06 1.08 1.07 1.03 1.08 1.05 1.13 1.02	50%  0.51 .50 .50 .50 .54 .51 .50 .50 .50 .51 .50 .48 .52 .51 .52 .51 .47	39.2 67.9 72.8 69.1 69.9 70.3 69.3 69.5 70.0 69.8 68.7 69.8 69.4 68.9 68.1	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3 7.9 8.2 8.0 8.1 7.9 8.0 8.1 7.9 8.0 8.1	tenacity (cN/tex)  11.8 11.7 11.6 12.1 12.8 12.1 12.3 13.3 11.6 11.8 11.6 11.8 11.6 12.9 12.5 10.7
Westburn M Stoneville 213 Famcot Sp 21S Coker 5110 PR 68 Pamcot 788 Samcot 788 Paymaster 303 Western 44 Coker 310 Paymaster 266 Paymaster 266 Paymaster 785 Paymaster 785 Paymaster 785 Paymaster 31A	1.09 1.09 1.08 1.06 1.15 1.06 1.08 1.07 1.03 1.08 1.05 1.13 1.02	50%  0.51 .50 .50 .50 .54 .51 .50 .50 .50 .51 .50 .51 .50 .51 .52 .51	39.2 67.9 72.8 69.1 69.9 70.3 69.3 69.5 70.0 69.8 68.7 69.8 69.4	Hunter's b value  8.2 7.6 7.7 7.7 7.7 8.3 7.9 8.2 8.0 8.1 7.9 8.0 8.2	tenacity (cN/tex)  11.8 11.7 11.6 12.1 12.8 12.1 12.3 13.3 11.6 11.6 11.8 11.6 12.9 12.5

Table 31.--Plains test: Yield, boll, and spinning data for Lubbock, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
Lockett 77	1029 a	6.37	38.0	12.0	4.65
Tamcot 788	949 ab	6.67	36.4	12.2	4.55
Paymaster 303	938 ab	6.25	37.5	12.2	5.10
Tamcot Sp 21S	932 ab	7.12	38.3	13.5	4.60
PR 68	924 bc	6.34	37.9	12.7	5.00
Coker 310	922 bc	5.81	38.9	11.3	5.00
Coker 5110	908 bc	5.92	37.7	11.8	4.85
aymaster 785	897 bc	6.23	39.1	12.8	5.75
SSA 71	897 bc	6.03	36.8	13.1	
ankart LX 571	889 bc	7.17	38.1		5.10
Stoneville 213	884 bcd			13.8	4.90
		5.32	38.6	11.0	5.15
Stripper 31A	872 bcd	5.19	35.2	11.5	6.05
Junn 119	867 bcd	7.17	34.9	15.7	5.10
Deltapine SR-2	841 bcde	5.84	37.0	11.6	5.05
lestburn M	840 bcde	6.20	37.9	12.1	4.95
lestern 44	815 cde	5.94	37.1	11.7	4.75
aymaster 266	778 de	5.95	36.0	12.7	4.95
cala SJ-5	747 e	6.37	38.7	12.1	4.45
	Snan length (	inches)	Co1or	rimetar	Yarn
	Span length (2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
	2.5%	50%	$R_{d}$	Hunter's b value	tenacity (cN/tex)
ockett 77	1.09	0.51	74.3	Hunter's b value	tenacity (cN/tex)
`amcot 788	1.09	0.51 .53	74.3 74.2	Hunter's b value  9.6 9.5	tenacity (cN/tex) 12.3 13.3
amcot 788	1.09 1.15 1.03	0.51 .53 .47	74.3 74.2 74.9	Hunter's b value  9.6 9.5 9.4	tenacity (cN/tex) 12.3 13.3 11.6
amcot 788	1.09	0.51 .53 .47 .51	74.3 74.2 74.9 75.1	Hunter's b value  9.6 9.5 9.4 9.2	tenacity (cN/tex) 12.3 13.3 11.6 12.1
amcot 788	1.09 1.15 1.03	0.51 .53 .47	74.3 74.2 74.9	Hunter's b value  9.6 9.5 9.4	tenacity (cN/tex) 12.3 13.3 11.6
amcot 788	1.09 1.15 1.03 1.12	0.51 .53 .47 .51	74.3 74.2 74.9 75.1	Hunter's b value  9.6 9.5 9.4 9.2	tenacity (cN/tex) 12.3 13.3 11.6 12.1
amcot 788	1.09 1.15 1.03 1.12 1.09	50%  0.51 .53 .47 .51	74.3 74.2 74.9 75.1 73.9	Hunter's b value  9.6 9.5 9.4 9.2 9.3	tenacity (cN/tex) 12.3 13.3 11.6 12.1 11.5
amcot 788	1.09 1.15 1.03 1.12 1.09 1.13	0.51 .53 .47 .51 .51	74.3 74.2 74.9 75.1 73.9 74.0	Hunter's b value  9.6 9.5 9.4 9.2 9.3 9.5	tenacity (cN/tex) 12.3 13.3 11.6 12.1 11.5 12.8
amcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00	0.51 .53 .47 .51 .51 .55	74.3 74.2 74.9 75.1 73.9 74.0 76.1	9.6 9.5 9.4 9.2 9.3 9.5 9.5	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3
amcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00	0.51 .53 .47 .51 .51 .55 .49	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6	Hunter's b value  9.6 9.5 9.4 9.2 9.3 9.5 9.5	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.8 12.3 12.0
amcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00 1.08 1.11	0.51 .53 .47 .51 .51 .55 .49 .52	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6 75.6	Hunter's b value  9.6 9.5 9.4 9.2 9.3 9.5 9.5 10.0 9.3 9.6	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3 12.0 12.4 11.5
amcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00 1.08 1.11	50%  0.51 .53 .47 .51 .51 .55 .49 .52 .53 .51	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6 75.6 75.5	9.6 9.5 9.4 9.2 9.3 9.5 9.5 10.0 9.3 9.6	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3 12.0 12.4 11.5 11.5
Camcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00 1.08 1.11 1.11	50%  0.51 .53 .47 .51 .51 .55 .49 .52 .53 .51 .50	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6 75.6 75.5 72.4	Hunter's b value  9.6 9.5 9.4 9.2 9.3 9.5 9.5 10.0 9.3 9.6 9.5 9.5	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3 12.0 12.4 11.5 11.5 10.7
Camcot 788 Caymaster 303 Camcot Sp 21S CR 68 Coker 310 Coker 5110 Caymaster 785 Caymaster 785 Cankart LX 571 Catripper 31A Counn 119	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00 1.08 1.11 1.11	0.51 .53 .47 .51 .51 .55 .49 .52 .53 .51 .50	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6 75.6 75.5 72.4 74.0	Hunter's b value  9.6 9.5 9.4 9.2 9.3 9.5 9.5 9.5 9.5 10.0 9.3 9.6 9.5 9.5	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3 12.0 12.4 11.5 11.5 10.7 13.9
Camcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00 1.08 1.11 1.11 1.11	50%  0.51 .53 .47 .51 .51 .55 .49 .52 .53 .51 .50 .55 .52	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6 75.6 75.5 72.4 74.0 73.0	Hunter's b value  9.6 9.5 9.4 9.2 9.3 9.5 9.5 10.0 9.3 9.6 9.5 9.5 9.7	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3 12.0 12.4 11.5 11.5 10.7 13.9 12.7
Camcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00 1.08 1.11 1.11 1.11 1.01 1.15 1.09 1.07	0.51 .53 .47 .51 .51 .55 .49 .52 .53 .51 .50 .55	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6 75.6 75.5 72.4 74.0 73.0 73.1	Hunter's b value  9.6 9.5 9.4 9.2 9.3 9.5 9.5 10.0 9.3 9.6 9.5 9.5 9.7 9.6	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3 12.0 12.4 11.5 11.5 10.7 13.9 12.7 11.2
Camcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00 1.08 1.11 1.11 1.01 1.15 1.09 1.07	0.51 .53 .47 .51 .51 .55 .49 .52 .53 .51 .50 .55 .48 .49	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6 75.6 75.5 72.4 74.0 73.0 73.1 73.7	9.6 9.5 9.4 9.2 9.3 9.5 9.5 9.5 9.5 9.5 9.5 9.5	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3 12.0 12.4 11.5 11.5 10.7 13.9 12.7 11.2 11.9
Camcot 788	1.09 1.15 1.03 1.12 1.09 1.13 1.17 1.00 1.08 1.11 1.11 1.11 1.01 1.15 1.09 1.07	0.51 .53 .47 .51 .51 .55 .49 .52 .53 .51 .50 .55	74.3 74.2 74.9 75.1 73.9 74.0 76.1 71.2 74.6 75.6 75.5 72.4 74.0 73.0 73.1	Hunter's b value  9.6 9.5 9.4 9.2 9.3 9.5 9.5 10.0 9.3 9.6 9.5 9.5 9.7 9.6	tenacity (cN/tex)  12.3 13.3 11.6 12.1 11.5 12.8 12.3 12.0 12.4 11.5 11.5 10.7 13.9 12.7 11.2

Table 32.--Plains test: Yield, boll, and spinning data for Chickasha, Okla.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	693 a	6.32	38.5	14.0	5.50
Tamcot Sp 21S	669 ab	6.04	39.7	12.0	4.65
Westburn M	631 abc	6.74	35.8	12.5	5.10
Lockett 77	630 abc	6.34	37.0	12.0	4.80
Paymaster 303	619 abcd	6.02	43.0	12.5	5.15
Coker 5110	611 abcd	6.56	38.0	10.5	4.90
PR 68	587 bcdef	6.16	36.4	11.0	5.10
GSA 71	578 cdefg	5.76	36.1	13.0	5.35
Western 44	567 cdefgh	6.12	35.4	11.5	4.75
Deltapine SR-2	558 cdefgh	5.90	35.1	10.0	5.45
Dunn 119	548 cdefgh	6.62	36.3	12.5	5.10
Tamcot 788	536 defgh	5.88	36.1	11.5	4.40
Paymaster 785	534 defgh	6.20	38.5	11.0	6.00
Coker 310	524 efgh	6.42	38.5	12.0	5.20
Lankart LX 571	523 efgh	7.54	37.0	12.0	5.50
Paymaster 266	497 fgh	6.14	36.5	12.5	5.10
Stripper 31A	489 gh	5.66	34.5	8.5	6.15
outipper our	~				4.85
Acala SJ-5	483 h	6.28	38.8	14.0	4.03
Acala SJ-5	Span length (2.5%			imeter Hunter's b value	Yarn tenacity (cN/tex)
	Span length (	inches) 50%	$\frac{Color}{R_d}$	rimeter  Hunter's  b value	Yarn tenacity (cN/tex)
Stoneville 213	Span length (2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Stoneville 213 Tamcot Sp 21S	Span length (2.5%  1.09 1.08	0.50 51	Color R _d 72.5 73.9	Hunter's b value  8.5 8.4	Yarn tenacity (cN/tex)
Stoneville 213 Tamcot Sp 21S Westburn M	Span length (2.5%  1.09 1.08 1.06	0.50 .51	72.5 73.9 70.8	Hunter's b value  8.5 8.4 9.1	Yarn tenacity (cN/tex) 12.6 11.1 11.7
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77	Span length (2.5%  1.09 1.08 1.06 1.05	0.50 .51 .50 .47	72.5 73.9 70.8 70.9	Hunter's b value  8.5 8.4 9.1 9.2	Yarn tenacity (cN/tex) 12.6 11.1 11.7 12.1
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303	Span length (2.5%  1.09 1.08 1.06 1.05 1.08	0.50 .51 .50 .47	72.5 73.9 70.8 70.9 71.5	######################################	Yarn tenacity (cN/tex) 12.6 11.1 11.7 12.1
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303 Coker 5110	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16	0.50 .51 .50 .47 .51	72.5 73.9 70.8 70.9 71.5 73.8	### Hunter's b value  8.5 8.4 9.1 9.2 8.7 8.2	Yarn tenacity (cN/tex) 12.6 11.1 11.7 12.1 12.1 13.8
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303 Coker 5110 PR 68	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04	0.50 .51 .50 .47 .51 .56	72.5 73.9 70.8 70.9 71.5 73.8 72.3	######################################	Yarn tenacity (cN/tex) 12.6 11.1 11.7 12.1 12.1 13.8 12.5
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303 Coker 5110 PR 68	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02	0.50 .51 .50 .47 .51 .56 .48	72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9	######################################	Yarn tenacity (cN/tex) 12.6 11.1 11.7 12.1 12.1 13.8 12.5 11.8
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303 Coker 5110 PR 68 GSA 71 Western 44	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04	0.50 .51 .50 .47 .51 .56 .48 .49	Color  R d  72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9 71.5	### Hunter's b value  8.5 8.4 9.1 9.2 8.7 8.2 8.4 8.5 8.2	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 12.1 13.8 12.5 11.8 12.2
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303 Coker 5110 PR 68 GSA 71 Western 44 Deltapine SR-2	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04 1.05	0.50 .51 .50 .47 .51 .56 .48 .49 .50	Color  R d  72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9 71.5 71.5	######################################	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 12.1 13.8 12.5 11.8 12.2 12.3
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303 Coker 5110 PR 68 GSA 71 Western 44 Deltapine SR-2 Dunn 119	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04 1.05 1.08	0.50 .51 .50 .47 .51 .56 .48 .49 .50	Color  R d  72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9 71.5 71.5 73.0	### Hunter's b value  8.5 8.4 9.1 9.2 8.7 8.2 8.4 8.5 8.2 9.2 8.6	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 13.8 12.5 11.8 12.2 12.3 13.2
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303 Coker 5110 PR 68 Western 44 Deltapine SR-2 Dunn 119 Tamcot 788	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04 1.05 1.08 1.08	0.50 .51 .50 .47 .51 .56 .48 .49 .50 .51	Color  R d  72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9 71.5 71.5 73.0 70.9	### Hunter's b value  8.5 8.4 9.1 9.2 8.7 8.2 8.4 8.5 8.2 9.2 8.6 8.7	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 12.1 13.8 12.5 11.8 12.2 12.3 13.2 13.1
Stoneville 213  Tamcot Sp 21S  Westburn M  Lockett 77  Paymaster 303  Coker 5110  PR 68  GSA 71  Western 44  Deltapine SR-2  Dunn 119  Tamcot 788  Paymaster 785	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04 1.05 1.08 1.08 1.94	0.50 .51 .50 .47 .51 .56 .48 .49 .50 .51 .53	Color Rd  72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9 71.5 71.5 71.5 73.0 70.9 69.2	######################################	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 13.8 12.5 11.8 12.2 12.3 13.2 13.1 10.7
Stoneville 213  Tamcot Sp 21S  Westburn M  Lockett 77  Paymaster 303  Coker 5110  PR 68  GSA 71  Western 44  Deltapine SR-2  Dunn 119  Tamcot 788  Paymaster 785  Coker 310	Span length (2.5%)  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04 1.05 1.08 1.108 1.108 1.108 1.11	0.50 .51 .50 .47 .51 .56 .48 .49 .50 .51 .53	Color  R d  72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9 71.5 71.5 73.0 70.9 69.2 71.8	**************************************	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 13.8 12.5 11.8 12.2 12.3 13.2 13.1 10.7 13.5
Stoneville 213  Tamcot Sp 21S  Westburn M  Lockett 77  Paymaster 303  Coker 5110  PR 68  GSA 71  Western 44  Deltapine SR-2  Dunn 119  Tamcot 788  Paymaster 785  Coker 310  Lankart LX 571	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04 1.05 1.08 1.08 1.08 1.08 1.08 1.09	0.50 .51 .50 .47 .51 .56 .48 .49 .50 .51 .53 .51	Color  R d  72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9 71.5 71.5 71.5 71.5 71.5 71.4	### Hunter's b value  8.5 8.4 9.1 9.2 8.7 8.2 8.4 8.5 8.2 9.2 8.6 8.7 9.4 8.3 8.9	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 12.1 13.8 12.5 11.8 12.2 12.3 13.2 13.1 10.7 13.5 11.8
Stoneville 213 Tamcot Sp 21S Westburn M Lockett 77 Paymaster 303 Coker 5110 PR 68 Western 44 Western 44 Deltapine SR-2 Dunn 119 Tamcot 788 Paymaster 785 Coker 310 Lankart LX 571 Paymaster 266	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04 1.05 1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.01	0.50 .51 .50 .47 .51 .56 .48 .49 .50 .51 .53 .51 .47	Color  R d  72.5 73.9 70.8 70.9 71.5 73.8 72.9 71.5 73.0 70.9 69.2 71.8 71.4 71.8	**************************************	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 13.8 12.5 11.8 12.2 12.3 13.2 13.1 10.7 13.5 11.8 13.4
Stoneville 213  Tamcot Sp 21S  Westburn M  Lockett 77  Paymaster 303  Coker 5110  PR 68  GSA 71  Western 44  Deltapine SR-2  Dunn 119  Tamcot 788  Paymaster 785  Coker 310	Span length (2.5%  1.09 1.08 1.06 1.05 1.08 1.16 1.04 1.02 1.04 1.05 1.08 1.08 1.08 1.08 1.08 1.09	0.50 .51 .50 .47 .51 .56 .48 .49 .50 .51 .53 .51	Color  R d  72.5 73.9 70.8 70.9 71.5 73.8 72.3 72.9 71.5 71.5 71.5 71.5 71.5 71.4	### Hunter's b value  8.5 8.4 9.1 9.2 8.7 8.2 8.4 8.5 8.2 9.2 8.6 8.7 9.4 8.3 8.9	Yarn tenacity (cN/tex)  12.6 11.1 11.7 12.1 12.1 13.8 12.5 11.8 12.2 12.3 13.2 13.1 10.7 13.5 11.8

Table 33.--Plains test: Yield, boll, and spinning data for Halfway, Tex.

Lint yield (1b. acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
681 a	5.26	36.9	11.1	3.70
670 ab	5.04			4.35
644 abc	5.46	38.7		4.85
612 abcd	5.10	33.3	11.1	3.70
602 abcd	5.27	38.8	11.0	3.85
600 abcd	5.68	37.2		4.45
589 abcd	5.56	37.0	10.9	3.85
583 abcd	4.74	35.1		4.65
577 abcd	5.57	36.2		4.60
				3.95
				4.10
				4.00
				4.10
				4.15
				4.05
				3.85
				4.10
				4.50
2.5%	50%	$\frac{R}{d}$	Hunter's b value	Yarn tenacity (cN/tex)
1.06	0.46	76.2	9.2	12.4
			9.2 9.8	
1.06	.51	71.5	9.8	13.4
1.06 1.01	.51 .49	71.5 70.3	9.8 10.6	13.4 11.6
1.06 1.01 1.09	.51 .49 .49	71.5 70.3 73.5	9.8 10.6 10.0	13.4 11.6 12.0
1.06 1.01 1.09 1.12	.51 .49 .49 .50	71.5 70.3 73.5 73.0	9.8 10.6 10.0 10.1	13.4 11.6 12.0 11.0
1.06 1.01 1.09 1.12 1.09	.51 .49 .49 .50	71.5 70.3 73.5 73.0 70.8	9.8 10.6 10.0 10.1 9.9	13.4 11.6 12.0 11.0
1.06 1.01 1.09 1.12 1.09 1.13	.51 .49 .49 .50 .50	71.5 70.3 73.5 73.0 70.8 71.3	9.8 10.6 10.0 10.1 9.9 10.1	13.4 11.6 12.0 11.0 11.6 13.0
1.06 1.01 1.09 1.12 1.09 1.13	.51 .49 .49 .50 .50 .50	71.5 70.3 73.5 73.0 70.8 71.3 72.5	9.8 10.6 10.0 10.1 9.9 10.1 9.7	13.4 11.6 12.0 11.0 11.6 13.0 10.7
1.06 1.01 1.09 1.12 1.09 1.13 .98 1.04	.51 .49 .49 .50 .50 .50	71.5 70.3 73.5 73.0 70.8 71.3 72.5 73.2	9.8 10.6 10.0 10.1 9.9 10.1 9.7 9.7	13.4 11.6 12.0 11.0 11.6 13.0 10.7
1.06 1.01 1.09 1.12 1.09 1.13 .98 1.04 1.08	.51 .49 .49 .50 .50 .50 .47 .50	71.5 70.3 73.5 73.0 70.8 71.3 72.5 73.2 74.9	9.8 10.6 10.0 10.1 9.9 10.1 9.7 9.7 9.3	13.4 11.6 12.0 11.0 11.6 13.0 10.7 12.0 13.0
1.06 1.01 1.09 1.12 1.09 1.13 .98 1.04 1.08 1.09	.51 .49 .49 .50 .50 .50 .47 .50 .48	71.5 70.3 73.5 73.0 70.8 71.3 72.5 73.2 74.9	9.8 10.6 10.0 10.1 9.9 10.1 9.7 9.7 9.7 9.3	13.4 11.6 12.0 11.0 11.6 13.0 10.7 12.0 13.0 12.8
1.06 1.01 1.09 1.12 1.09 1.13 .98 1.04 1.08 1.09	.51 .49 .49 .50 .50 .50 .47 .50 .48 .51	71.5 70.3 73.5 73.0 70.8 71.3 72.5 73.2 74.9 74.9 73.8	9.8 10.6 10.0 10.1 9.9 10.1 9.7 9.7 9.7 9.3 9.4	13.4 11.6 12.0 11.0 11.6 13.0 10.7 12.0 13.0 12.8 13.3
1.06 1.01 1.09 1.12 1.09 1.13 .98 1.04 1.08 1.09 1.22 1.05	.51 .49 .49 .50 .50 .50 .47 .50 .48	71.5 70.3 73.5 73.0 70.8 71.3 72.5 73.2 74.9 74.9 73.8 71.1	9.8 10.6 10.0 10.1 9.9 10.1 9.7 9.7 9.3 9.4 9.4 10.3	13.4 11.6 12.0 11.0 11.6 13.0 10.7 12.0 13.0 12.8 13.3 12.7
1.06 1.01 1.09 1.12 1.09 1.13 .98 1.04 1.08 1.09 1.22 1.05 1.15	.51 .49 .49 .50 .50 .50 .47 .50 .48 .51 .55	71.5 70.3 73.5 73.0 70.8 71.3 72.5 73.2 74.9 74.9 73.8 71.1 74.9	9.8 10.6 10.0 10.1 9.9 10.1 9.7 9.7 9.3 9.4 9.4 10.3 9.7	13.4 11.6 12.0 11.0 11.6 13.0 10.7 12.0 13.0 12.8 13.3 12.7 13.0
1.06 1.01 1.09 1.12 1.09 1.13 .98 1.04 1.08 1.09 1.22 1.05 1.15	.51 .49 .49 .50 .50 .50 .47 .50 .48 .51 .55 .48	71.5 70.3 73.5 73.0 70.8 71.3 72.5 73.2 74.9 74.9 73.8 71.1 74.9 75.0	9.8 10.6 10.0 10.1 9.9 10.1 9.7 9.7 9.3 9.4 9.4 10.3 9.7 10.0	13.4 11.6 12.0 11.0 11.6 13.0 10.7 12.0 13.0 12.8 13.3 12.7 13.0 12.8
1.06 1.01 1.09 1.12 1.09 1.13 .98 1.04 1.08 1.09 1.22 1.05 1.15	.51 .49 .49 .50 .50 .50 .47 .50 .48 .51 .55	71.5 70.3 73.5 73.0 70.8 71.3 72.5 73.2 74.9 74.9 73.8 71.1 74.9	9.8 10.6 10.0 10.1 9.9 10.1 9.7 9.7 9.3 9.4 9.4 10.3 9.7	13.4 11.6 12.0 11.0 11.6 13.0 10.7 12.0 13.0 12.8 13.3 12.7 13.0
	(1b. acre)  681 a 670 ab 644 abc 612 abcd 602 abcd 600 abcd 589 abcd 577 abcd 570 abcd 570 abcd 570 abcd 542 cd 532 cd 526 cd 504 d 493 d 492 d  Span length (	(1b. acre) (g/boll)  681 a 5.26 670 ab 5.04 644 abc 5.46 612 abcd 5.10 602 abcd 5.27 600 abcd 5.68 589 abcd 5.56 583 abcd 4.74 577 abcd 5.57 570 abcd 5.16 558 bcd 5.63 542 cd 4.88 532 cd 5.11 526 cd 4.71 504 d 4.40 504 d 5.39 493 d 6.23 492 d 5.81  Span length (inches)	(1b. acre) (g/boll) percent  681 a 5.26 36.9 670 ab 5.04 34.7 644 abc 5.46 38.7 612 abcd 5.10 33.3 602 abcd 5.27 38.8 600 abcd 5.68 37.2 589 abcd 5.56 37.0 583 abcd 4.74 35.1 577 abcd 5.57 36.2 570 abcd 5.16 35.6 558 bcd 5.63 33.4 542 cd 4.88 36.3 532 cd 5.11 36.0 526 cd 4.71 36.7 504 d 4.40 34.9 504 d 5.39 37.1 493 d 6.23 36.1 492 d 5.81 37.9  Span length (inches) Color	(1b. acre) (g/boll) percent index  681 a 5.26 36.9 11.1 670 ab 5.04 34.7 12.0 644 abc 5.46 38.7 11.5 612 abcd 5.10 33.3 11.1 602 abcd 5.27 38.8 11.0 600 abcd 5.68 37.2 12.2 589 abcd 5.56 37.0 10.9 583 abcd 4.74 35.1 10.8 577 abcd 5.57 36.2 12.3 570 abcd 5.16 35.6 11.0 558 bcd 5.63 33.4 11.1 542 cd 4.88 36.3 11.0 532 cd 5.11 36.0 11.2 526 cd 4.71 36.7 10.8 504 d 4.40 34.9 10.7 504 d 5.39 37.1 11.5 493 d 6.23 36.1 12.8 492 d 5.81 37.9 13.8  Span length (inches) 2.5% Colorimeter  R _A Hunter's

Table 34.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex. (irrigated)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	425 a	4.59	37.4	11.3	5.05
Γamcot Sp 21S	389 ab	4.47	38.8	10.7	4.35
Coker 5110	376 abc	4.85	37.6	11.6	4.85
PR 68	361 abcd	5.04	36.1	12.0	4.75
Lockett 77	347 abcd	4.44	37.2	11.5	4.55
Paymaster 303	324 bcde	4.71	36.9	11.7	4.70
Paymaster 785	321 bcde	4.46	38.0	12.0	5.55
Deltapine SR-2	321 bcde	4.59	35.0	11.2	5.25
Westburn M	320 bcde	5.26	34.0	12.0	4.60
Lankart LX 571	314 bcde	6.30	35.8	13.7	4.60
SSA 71	304 cde	5.54	36.5	13.2	5.40
Western 44	300 cde	5.22	35.3	11.5	4.70
Paymaster 266	300 cde	4.50	37.1	11.6	5.30
Ounn 119	280 de	5.04	35.4	14.0	4.45
Coker 310	258 ef	4.66	37.7	12.1	5.00
Tamcot 788	256 ef	5.07	35.5	11.6	4.15
Acala SJ-5	240 ef	5.07	37.9	12.2	4.60
Stripper 31A	192 f  Span length (			12.0	5.95 Yarn
Stripper 31A					
	Span length (	inches) 50%	$\frac{Color}{R_d}$	imeter  Hunter's  b value	Yarn tenacity (cN/tex)
Stoneville 213	Span length ( 2.5%	inches) 50%	Color $R_d$	Hunter's b value	Yarn tenacity (cN/tex)
toneville 213 amcot Sp 21S	Span length ( 2.5%	inches) 50%  0.47 .48	Color R _d 65.9 72.7	Hunter's b value  7.1 7.7	Yarn tenacity (cN/tex)
toneville 213 amcot Sp 21S oker 5110	Span length ( 2.5% 1.04 1.04 1.06	inches) 50%  0.47 .48 .47	Color R _d 65.9 72.7 66.7	Hunter's b value  7.1 7.7 7.2	Yarn tenacity (cN/tex) 11.4 11.4 12.2
toneville 213 Camcot Sp 21S Coker 5110	Span length ( 2.5% 1.04 1.04 1.06 1.04	0.47 .48 .47 .49	Color Rd 65.9 72.7 66.7 69.7	Hunter's b value  7.1 7.7 7.2 7.2	Yarn tenacity (cN/tex) 11.4 11.4 12.2 11.7
Stoneville 213 Samcot Sp 21S Coker 5110 PR 68	Span length ( 2.5% 1.04 1.04 1.06 1.04 1.03	0.47 .48 .47 .49	Color R _d 65.9 72.7 66.7 69.7 67.2	7.1 7.7 7.2 7.3	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9
Stoneville 213 Samcot Sp 21S Soker 5110 PR 68 Sockett 77 Saymaster 303	Span length ( 2.5% 1.04 1.04 1.06 1.04 1.03 1.01	0.47 .48 .47 .49 .49	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4	7.1 7.7 7.2 7.3 7.9	Yarn tenacity (cN/tex) 11.4 11.4 12.2 11.7 11.9 10.8
Stoneville 213 Camcot Sp 21S Coker 5110 CR 68 Cockett 77 Caymaster 303 Caymaster 785	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93	0.47 .48 .47 .49 .49	Color Rd 65.9 72.7 66.7 69.7 67.2 69.4 69.3	7.1 7.7 7.2 7.2 7.3 7.9 8.8	Yarn tenacity (cN/tex) 11.4 11.4 12.2 11.7 11.9 10.8 10.3
Stoneville 213 Camcot Sp 21S Coker 5110 PR 68 Cockett 77 Paymaster 303 Paymaster 785 Deltapine SR-2	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99	0.47 .48 .47 .49 .49 .46 .46	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6	7.1 7.7 7.2 7.2 7.9 8.8 8.0	Yarn tenacity (cN/tex) 11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3
Stoneville 213 Famcot Sp 21S Coker 5110 PR 68 Cockett 77 Paymaster 303 Paymaster 785 Deltapine SR-2	Span length ( 2.5% 1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06	0.47 .48 .47 .49 .49 .46 .46	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1	7.1 7.7 7.2 7.2 7.9 8.8 8.0 7.8	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3
Stoneville 213  Famcot Sp 21S  Coker 5110  PR 68  Cockett 77  Paymaster 303  Paymaster 785  Deltapine SR-2  Vestburn M  Lankart LX 571	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06 1.09	0.47 .48 .47 .49 .49 .46 .46 .51	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1 66.4	7.1 7.7 7.2 7.2 7.3 7.9 8.8 8.0 7.8 7.9	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3 11.3
Stoneville 213 Famcot Sp 21S Coker 5110 PR 68 Cockett 77 Paymaster 303 Paymaster 785 Deltapine SR-2 Vestburn M Lankart LX 571	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06 1.09 1.02	0.47 .48 .47 .49 .49 .46 .46 .51	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1 66.4 70.1	7.1 7.7 7.2 7.2 7.3 7.9 8.8 8.0 7.8 7.9 7.6	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3 11.3 11.8 11.0
Stoneville 213 Samcot Sp 21S Soker 5110 PR 68 Sockett 77 Paymaster 303 Paymaster 785 Peltapine SR-2 Westburn M SSA 71 Western 44	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06 1.09 1.02 .97	inches) 50%  0.47 .48 .47 .49 .46 .46 .51 .54 .51 .46	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1 66.4 70.1 69.7	7.1 7.7 7.2 7.2 7.3 7.9 8.8 8.0 7.8 7.9 7.6	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3 11.3 11.8 11.0 11.0
Stoneville 213 Famcot Sp 21S Coker 5110 PR 68 Cockett 77 Paymaster 303 Paymaster 785 Deltapine SR-2 Westburn M SSA 71 Vestern 44 Paymaster 266	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06 1.09 1.02 .97 .99	inches) 50%  0.47 .48 .47 .49 .49 .46 .46 .51 .54 .51 .46 .49	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1 66.4 70.1 69.7 68.2	7.1 7.7 7.2 7.2 7.3 7.9 8.8 8.0 7.8 7.9 7.6 8.5 8.4	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3 11.8 11.0 11.0 11.5
Stoneville 213  Famcot Sp 21S  Coker 5110  PR 68  Cockett 77  Paymaster 303  Paymaster 785  Deltapine SR-2  Westburn M  Lankart LX 571  SSA 71  Western 44  Paymaster 266  Paymaster 266	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06 1.09 1.02 .97 .99 1.08	0.47 .48 .47 .49 .49 .46 .46 .51 .54 .51	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1 66.4 70.1 69.7 68.2 67.0	7.1 7.7 7.2 7.2 7.3 7.9 8.8 8.0 7.8 7.9 7.6 8.5 8.4 6.9	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3 11.3 11.5 11.0 11.5 13.3
Stoneville 213  Samcot Sp 21S  Soker 5110  PR 68  Sockett 77  Saymaster 303  Saymaster 785  Seltapine SR-2  Sestburn M  Sankart LX 571  SSA 71  Sestern 44  Saymaster 266  Saymaster 266  Soker 310	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06 1.09 1.02 .97 .99 1.08 1.08	inches) 50%  0.47 .48 .47 .49 .49 .46 .46 .51 .54 .51 .46 .49 .51 .48	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1 66.4 70.1 69.7 68.2 67.0 67.0	7.1 7.7 7.2 7.2 7.3 7.9 8.8 8.0 7.8 7.9 7.6 8.5 8.4 6.9 8.1	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3 11.3 11.5 11.7
Stoneville 213  Famcot Sp 21S  Coker 5110  PR 68  Cockett 77  Paymaster 303  Paymaster 785  Oeltapine SR-2  Vestburn M  Lankart LX 571  SSA 71  Vestern 44  Paymaster 266  Ounn 119  Coker 310  Famcot 788	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06 1.09 1.02 .97 .99 1.08 1.08 1.08 1.05	inches) 50%  0.47 .48 .47 .49 .49 .46 .46 .51 .54 .51 .46 .49 .51 .48	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1 66.4 70.1 69.7 68.2 67.0 67.0 69.5	7.1 7.7 7.2 7.2 7.3 7.9 8.8 8.0 7.8 7.9 7.6 8.5 8.4 6.9 8.1 8.0	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3 11.3 11.5 11.7 12.6
Stripper 31A  Stoneville 213  Tamcot Sp 21S  Coker 5110  PR 68  Cockett 77  Paymaster 303  Paymaster 785  Deltapine SR-2  Vestburn M  Sankart LX 571  Symmitter 31A  Stripper 31A	Span length ( 2.5%  1.04 1.04 1.06 1.04 1.03 1.01 .93 .99 1.06 1.09 1.02 .97 .99 1.08 1.08	inches) 50%  0.47 .48 .47 .49 .49 .46 .46 .51 .54 .51 .46 .49 .51 .48	Color Rd  65.9 72.7 66.7 69.7 67.2 69.4 69.3 67.6 68.1 66.4 70.1 69.7 68.2 67.0 67.0	7.1 7.7 7.2 7.2 7.3 7.9 8.8 8.0 7.8 7.9 7.6 8.5 8.4 6.9 8.1	Yarn tenacity (cN/tex)  11.4 11.4 12.2 11.7 11.9 10.8 10.3 11.3 11.3 11.5 11.7

Table 35.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex. (dryland)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Westburn M	417 a	5.59	36.6	12.7	5.00
Stoneville 213	409 a	4.39	38.4	11.2	5.65
Lockett 77	356 ab	4.19	36.6	11.6	4.55
Tamcot Sp 21S	352 ab	4.62	38.7	11.5	4.70
Coker 5110	338 abc	5.21	37.6	12.0	5.25
Deltapine SR-2	332 abc	4.81	34.9	12.0	5.35
PR 68	285 bcd	5.02	36.0	12.3	5.10
Lankart LX 571	283 bcd	5.52	37.1	14.1	5.40
Western 44	263 bcd	4.31	35.3	12.3	480
Coker 310	259 bcd	5.21	37.5	12.4	5.20
Paymaster 303	250 bcd	4.29	37.1	12.0	4.90
Tamcot 788	248 bcd	5.28	37.1	12.4	4.50
Paymaster 266	232 cd	4.10	36.5	13.8	5.35
Dunn 119	217 d	4.75	36.1	14.3	5.35
Paymaster 785	217 d 215 d	4.76	38.3	12.9	5.95
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GSA 71	212 d	4.09	37.8	13.2	5.65
Stripper 31A	195 d	4.31	33.8	12.7	6.35
Acala SJ-5	192 d	5.63	38.4	12.7	5.00
	Span length (	inches)	Color	imeter	Yarn
	Span length (	inches) 50%	$\frac{\text{Color}}{R}$	Hunter's	
	Span length (	<del></del>	$\frac{\text{Color}}{R_{d}}$		Yarn tenacity (cN/tex)
W. rd L M	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
Westburn M	1.08	0.51	68.1	Hunter's b value	tenacity (cN/tex)
Stoneville 213	1.08	0.51 .49	68.1 63.8	Hunter's b value  7.5 6.6	tenacity (cN/tex) 12.6 11.3
Stoneville 213 Lockett 77	1.08 1.08 1.08 1.05	0.51 .49 .49	68.1 63.8 66.0	Hunter's b value  7.5 6.6 6.6	tenacity (cN/tex) 12.6 11.3 12.2
Stoneville 213 Lockett 77 Tamcot Sp 21S	1.08 1.08 1.08 1.05 1.07	0.51 .49 .49 .48	68.1 63.8 66.0 71.8	Hunter's b value  7.5 6.6 6.6 7.3	12.6 11.3 12.2 12.0
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110	1.08 1.08 1.08 1.05 1.07	0.51 .49 .49 .48	68.1 63.8 66.0 71.8 67.9	Hunter's b value  7.5 6.6 6.6 7.3 6.9	tenacity (cN/tex) 12.6 11.3 12.2 12.0 12.4
Stoneville 213 Lockett 77 Tamcot Sp 21S	1.08 1.08 1.05 1.07 1.16 1.09	0.51 .49 .49 .48 .54	68.1 63.8 66.0 71.8 67.9 67.9	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0	tenacity (cN/tex) 12.6 11.3 12.2 12.0 12.4 12.5
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110	1.08 1.08 1.08 1.05 1.07	0.51 .49 .49 .48	68.1 63.8 66.0 71.8 67.9 67.9	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3	tenacity (cN/tex) 12.6 11.3 12.2 12.0 12.4 12.5 12.0
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2	1.08 1.08 1.05 1.07 1.16 1.09	0.51 .49 .49 .48 .54	68.1 63.8 66.0 71.8 67.9 67.9	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0	tenacity (cN/tex) 12.6 11.3 12.2 12.0 12.4 12.5
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68	1.08 1.08 1.05 1.07 1.16 1.09 1.07	0.51 .49 .49 .48 .54 .52	68.1 63.8 66.0 71.8 67.9 67.9	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3	tenacity (cN/tex) 12.6 11.3 12.2 12.0 12.4 12.5 12.0
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571	1.08 1.08 1.05 1.07 1.16 1.09 1.07	0.51 .49 .49 .48 .54 .52 .51	68.1 63.8 66.0 71.8 67.9 67.9 69.4 68.0	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8	tenacity (cN/tex)  12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571  Western 44  Coker 310	1.08 1.08 1.05 1.07 1.16 1.09 1.07 1.07	0.51 .49 .49 .48 .54 .52 .51	8.1 63.8 66.0 71.8 67.9 67.9 69.4 68.0 67.8	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8 7.7	tenacity (cN/tex) 12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1 12.2
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571  Western 44	1.08 1.08 1.05 1.07 1.16 1.09 1.07 1.07 1.02	0.51 .49 .49 .48 .54 .52 .51 .51	R _d 68.1 63.8 66.0 71.8 67.9 69.4 68.0 67.8 69.3	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8 7.7	tenacity (cN/tex)  12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1 12.2 13.5
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571  Western 44  Coker 310  Paymaster 303  Tamcot 788	1.08 1.08 1.05 1.07 1.16 1.09 1.07 1.07 1.02 1.16 1.07	50%  0.51 .49 .49 .48 .54 .52 .51 .51 .47 .55	88.1 63.8 66.0 71.8 67.9 67.9 69.4 68.0 67.8 69.3 68.6	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8 7.7 7.5	tenacity (cN/tex)  12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1 12.2 13.5 11.8
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571  Western 44  Coker 310  Paymaster 303  Tamcot 788  Paymaster 266	1.08 1.08 1.05 1.07 1.16 1.09 1.07 1.07 1.02 1.16 1.07 1.07	0.51 .49 .49 .48 .54 .52 .51 .51 .47 .55 .50	88.1 63.8 66.0 71.8 67.9 67.9 69.4 68.0 67.8 69.3 68.6 68.5	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8 7.7 7.5 7.5 7.5	tenacity (cN/tex)  12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1 12.2 13.5 11.8 14.3
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571  Western 44  Coker 310  Paymaster 303  Tamcot 788  Paymaster 266  Dunn 119	1.08 1.08 1.05 1.07 1.16 1.09 1.07 1.07 1.02 1.16 1.07 1.07	0.51 .49 .49 .48 .54 .52 .51 .51 .47 .55 .50 .48	Rd 68.1 63.8 66.0 71.8 67.9 67.9 69.4 68.0 67.8 69.3 68.6 68.5 66.8	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8 7.7 7.5 7.5 7.5 7.7	tenacity (cN/tex)  12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1 12.2 13.5 11.8 14.3 12.2
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571  Western 44  Coker 310  Paymaster 303  Tamcot 788  Paymaster 266  Dunn 119  Paymaster 785	1.08 1.08 1.05 1.07 1.16 1.09 1.07 1.07 1.02 1.16 1.07 1.13	0.51 .49 .49 .48 .54 .52 .51 .51 .47 .55 .50 .48 .50	R _d 68.1 63.8 66.0 71.8 67.9 67.9 69.4 68.0 67.8 69.3 68.6 68.5 66.8 67.1 66.3	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	tenacity (cN/tex)  12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1 12.2 13.5 11.8 14.3 12.2 13.5
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571  Western 44  Coker 310  Paymaster 303  Tamcot 788  Paymaster 266  Dunn 119  Paymaster 785  GSA 71	1.08 1.08 1.05 1.07 1.16 1.09 1.07 1.02 1.16 1.07 1.02 1.16 1.07 1.07	0.51 .49 .49 .48 .54 .52 .51 .51 .47 .55 .50 .48 .50 .55	Rd  68.1  63.8  66.0  71.8  67.9  67.9  69.4  68.0  67.8  69.3  68.6  68.5  66.8  67.1  66.3  67.5	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8 7.7 7.5 7.5 7.5 7.5 7.5	tenacity (cN/tex)  12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1 12.2 13.5 11.8 14.3 12.2 13.5 10.4
Stoneville 213  Lockett 77  Tamcot Sp 21S  Coker 5110  Deltapine SR-2  PR 68  Lankart LX 571  Western 44  Coker 310  Paymaster 303  Tamcot 788  Paymaster 266  Dunn 119  Paymaster 785	1.08 1.08 1.05 1.07 1.16 1.09 1.07 1.07 1.02 1.16 1.07 1.13	0.51 .49 .49 .48 .54 .52 .51 .51 .47 .55 .50 .48 .50	R _d 68.1 63.8 66.0 71.8 67.9 67.9 69.4 68.0 67.8 69.3 68.6 68.5 66.8 67.1 66.3	Hunter's b value  7.5 6.6 6.6 7.3 6.9 8.0 7.3 7.8 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.3	tenacity (cN/tex)  12.6 11.3 12.2 12.0 12.4 12.5 12.0 11.1 12.2 13.5 11.8 14.3 12.2 13.5 10.4 11.7

Table 36.--Plains test: Yield, boll, and spinning data for Altus, Okla.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Westburn M	295 a	6.48	33.7	11.5	4.65
Tamcot 788	240 b	5.82	34.0	9.5	4.20
Tamcot Sp 21S	204 b	5.60	31.3	11.5	3.95
Coker 5110	147 c	5.96	33.8	14.0	4.05
Lockett 77	141 cd	6.14	33.8	13.0	4.15
Coker 310	122 cde	5.66	34.5	12.0	4.35
Lankart LX 571	121 cde	6.54	32.1	11.5	4.40
Paymaster 266	116 cde	5.48	31.7	14.0	4.55
Western 44	114 cdef	- 5.60	32.5	11.5	4.20
Stoneville 213	111 cdef	5.40	30.8	13.5	4.25
GSA 71	105 cdef	5.96	32.1	12.5	4.50
Deltapine SR-2	100 cdef	5.66	30.9	8.0	4.60
PR 68	97 cdef	5.68	31.7	13.5	4.20
Dunn 119	85 cdef	6.46	31.2	14.5	4.05
Paymaster 303	84 def	6.10	31.6	12.5	4.25
Acala SJ-5	69 ef	6.40	34.0	12.0	4.25
Paymaster 785	66 ef	5.68	35.1	13.0	4.90
Stripper 31A	53 f	5.32	31.0	10.5	5.34
			<del></del>		
	Span length (	inches)	Color	imeter	Yarn
	Span length (	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's  b value	Yarn tenacity (cN/tex)
Westburn M				Hunter's	tenacity
Westburn M Tamcot 788	2.5%	50%	$\overline{R}_d$	Hunter's b value	tenacity (cN/tex)
Tamcot 788 Tamcot Sp 21S	1.11	0.51	70.1	Hunter's b value	tenacity (cN/tex)
Tamcot 788 Tamcot Sp 21S	1.11	0.51 .54	70.1 69.2	Hunter's b value  8.5 7.8	tenacity (cN/tex) 11.6 13.3
Tamcot 788 Tamcot Sp 21S Coker 5110 Lockett 77	1.11 1.13 1.13	0.51 .54 .54	70.1 69.2 72.8	Hunter's b value  8.5 7.8 7.3	tenacity (cN/tex) 11.6 13.3 11.8
Tamcot 788 Tamcot Sp 21S Coker 5110 Lockett 77	1.11 1.13 1.13 1.21	0.51 .54 .54 .58	70.1 69.2 72.8 71.4	Hunter's b value  8.5 7.8 7.3 8.3	tenacity (cN/tex) 11.6 13.3 11.8 12.8
Tamcot 788 Tamcot Sp 21S Coker 5110 Lockett 77 Coker 310	1.11 1.13 1.13 1.21 1.11	0.51 .54 .54 .58 .54	70.1 69.2 72.8 71.4 72.2	Hunter's b value  8.5 7.8 7.3 8.3 7.8	tenacity (cN/tex) 11.6 13.3 11.8 12.8 12.4
Tamcot 788  Tamcot Sp 21S  Coker 5110  Lockett 77  Coker 310  Lankart LX 571	1.11 1.13 1.13 1.21 1.11 1.19	0.51 .54 .54 .58 .54	70.1 69.2 72.8 71.4 72.2 69.5	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2	tenacity (cN/tex) 11.6 13.3 11.8 12.8 12.4 12.9
Tamcot 788 Tamcot Sp 21S Coker 5110 Lockett 77 Coker 310 Lankart LX 571 Paymaster 266	1.11 1.13 1.13 1.21 1.11 1.19 1.09	0.51 .54 .54 .58 .54 .53	70.1 69.2 72.8 71.4 72.2 69.5 69.3	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8	tenacity (cN/tex) 11.6 13.3 11.8 12.8 12.4 12.9 11.7
Tamcot 788  Tamcot Sp 21S  Coker 5110  Lockett 77  Coker 310  Lankart LX 571  Paymaster 266  Western 44	1.11 1.13 1.13 1.21 1.11 1.19 1.09 1.09	50%  0.51 .54 .54 .58 .54 .53 .54 .55	70.1 69.2 72.8 71.4 72.2 69.5 69.3	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8 7.6	tenacity (cN/tex) 11.6 13.3 11.8 12.8 12.4 12.9 11.7
Tamcot 788  Tamcot Sp 21S  Coker 5110  Lockett 77  Coker 310  Lankart LX 571  Paymaster 266  Western 44  Stoneville 213	1.11 1.13 1.13 1.21 1.11 1.19 1.09 1.09 1.07	0.51 .54 .54 .58 .54 .53 .54 .55	70.1 69.2 72.8 71.4 72.2 69.5 69.3 69.0 70.2	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8 7.6 7.8	tenacity (cN/tex) 11.6 13.3 11.8 12.8 12.4 12.9 11.7 13.1 12.1
Tamcot 788  Tamcot Sp 21S  Coker 5110  Lockett 77  Coker 310  Lankart LX 571  Paymaster 266  Western 44  Stoneville 213  GSA 71	1.11 1.13 1.13 1.13 1.21 1.11 1.19 1.09 1.09 1.07 1.14	0.51 .54 .54 .58 .54 .53 .54 .55 .51	70.1 69.2 72.8 71.4 72.2 69.5 69.3 69.0 70.2 69.6	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8 7.6 7.8 8.1	tenacity (cN/tex)  11.6 13.3 11.8 12.8 12.4 12.9 11.7 13.1 12.1 11.4
Tamcot 788  Tamcot Sp 21S  Coker 5110  Lockett 77  Coker 310  Lankart LX 571  Paymaster 266  Western 44  Stoneville 213  GSA 71  Deltapine SR-2	1.11 1.13 1.13 1.21 1.11 1.19 1.09 1.09 1.07 1.14	0.51 .54 .54 .58 .54 .53 .54 .55 .51	70.1 69.2 72.8 71.4 72.2 69.5 69.3 69.0 70.2 69.6 68.9	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8 7.6 7.8 8.1 8.2	tenacity (cN/tex)  11.6 13.3 11.8 12.8 12.4 12.9 11.7 13.1 12.1 11.4 12.0
Tamcot 788  Tamcot Sp 21S  Coker 5110  Lockett 77  Coker 310  Lankart LX 571  Paymaster 266  Western 44  Stoneville 213  GSA 71  Deltapine SR-2  PR 68	1.11 1.13 1.13 1.13 1.21 1.11 1.19 1.09 1.09 1.07 1.14 1.10	0.51 .54 .54 .58 .54 .53 .54 .55 .51 .54	70.1 69.2 72.8 71.4 72.2 69.5 69.3 69.0 70.2 69.6 68.9 70.3	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8 7.6 7.8 8.1 8.2 7.9	tenacity (cN/tex)  11.6 13.3 11.8 12.8 12.4 12.9 11.7 13.1 12.1 11.4 12.0 13.0
Tamcot 788  Tamcot Sp 21S  Coker 5110  Lockett 77  Coker 310  Lankart LX 571  Paymaster 266  Western 44  Stoneville 213  GSA 71  Deltapine SR-2  PR 68  Dunn 119	1.11 1.13 1.13 1.13 1.21 1.11 1.19 1.09 1.09 1.07 1.14 1.10	50%  0.51 .54 .54 .58 .54 .53 .54 .55 .51 .54 .55	70.1 69.2 72.8 71.4 72.2 69.5 69.3 69.0 70.2 69.6 68.9 70.3 69.9	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8 7.6 7.8 8.1 8.2 7.9 7.8	tenacity (cN/tex)  11.6 13.3 11.8 12.8 12.4 12.9 11.7 13.1 12.1 11.4 12.0 13.0 12.4
Tamcot 788  Tamcot Sp 21S  Coker 5110  Lockett 77  Coker 310  Lankart LX 571  Paymaster 266  Western 44  Stoneville 213  GSA 71  Deltapine SR-2  PR 68  Dunn 119  Paymaster 303	1.11 1.13 1.13 1.13 1.21 1.11 1.19 1.09 1.09 1.07 1.14 1.10 1.11 1.11	50%  0.51 .54 .54 .58 .54 .53 .54 .55 .51 .54 .55 .51 .54 .55 .51 .55 .51 .55	70.1 69.2 72.8 71.4 72.2 69.5 69.3 69.0 70.2 69.6 68.9 70.3 69.9	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8 7.6 7.8 8.1 8.2 7.9 7.8 7.5	tenacity (cN/tex)  11.6 13.3 11.8 12.8 12.4 12.9 11.7 13.1 12.1 11.4 12.0 13.0 12.4 13.6 11.8
	1.11 1.13 1.13 1.21 1.11 1.19 1.09 1.09 1.07 1.14 1.10 1.11	0.51 .54 .54 .58 .54 .53 .54 .55 .51 .54 .55 .51	70.1 69.2 72.8 71.4 72.2 69.5 69.3 69.0 70.2 69.6 68.9 70.3 69.9 69.7 70.5	Hunter's b value  8.5 7.8 7.3 8.3 7.8 8.2 7.8 7.6 7.8 8.1 8.2 7.9 7.8 7.5 8.7	tenacity (cN/tex)  11.6 13.3 11.8 12.8 12.4 12.9 11.7 13.1 12.1 11.4 12.0 13.0 12.4 13.6

## WESTERN REGIONAL COTTON VARIETY TEST

Table 37.--Western test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	1269 a	5.43 e	38.7 a	10.6 d	4.83 a
Stoneville 213	1219 ab	5.25 e	36.4 e	10.8 d	4.82 a
Coker 310	1124 abc	5.85 cd	37.0 d	11.3 c	4.58 b
Deltapine 61	1124 abc	5.40 e	37.6 c	10.5 d	4.92 a
Acala 1517-77	1088 abc	5.91 c	33.9 g	12.5 a	4.45 b
Tamcot Sp 21S	1081 bc	5.71 cd	39.0 a	11.2 c	4.56 b
Acala 1517-75	1046 с	5.66 d	35.6 f	12.4 a	4.27 c
Paymaster 303	998 c	6.27 b	36.3 e	12.1 b	4.58 b
Acala SJ-5	990 c	6.61 a	38.1 b	12.1 b	4.55 b
	Span length (	inches)	Color	imeter	Yarn
	2.5%	50%	$\frac{R_d}{R_d}$	Hunter's b value	tenacity (cN/tex)
McNair 220				Hunter's	tenacity
McNair 220 Stoneville 213	2.5%	50%	$\overline{R}_d$	Hunter's b value	tenacity (cN/tex)
	2.5% 1.10 e	50% 0.53 b	74.6 e	Hunter's b value	tenacity (cN/tex)
Stoneville 213	2.5% 1.10 e 1.14 d	0.53 b .53 b	74.6 e 73.5 h	Hunter's b value  9.2 a 8.8 ab	tenacity (cN/tex) 11.8 cd 11.1 e
Stoneville 213 Coker 310	1.10 e 1.14 d 1.18 c	0.53 b .53 b .55 b	74.6 e 73.5 h 73.7 g	Hunter's b value  9.2 a 8.8 ab 9.2 a	tenacity (cN/tex) 11.8 cd 11.1 e 12.0 c
Stoneville 213 Coker 310 Deltapine 61	1.10 e 1.14 d 1.18 c 1.16 d	0.53 b .53 b .55 b .54 b	74.6 e 73.5 h 73.7 g 75.9 a	Hunter's b value  9.2 a 8.8 ab 9.2 a 9.1 ab	11.8 cd 11.1 e 12.0 c 11.4 cde
Stoneville 213 Coker 310 Deltapine 61 Acala 1517-77	1.10 e 1.14 d 1.18 c 1.16 d 1.21 b	0.53 b .53 b .55 b .54 b .60 a	74.6 e 73.5 h 73.7 g 75.9 a 74.0 f	Hunter's b value  9.2 a 8.8 ab 9.2 a 9.1 ab 8.6 ab	tenacity (cN/tex)  11.8 cd 11.1 e 12.0 c 11.4 cde 14.9 a
Stoneville 213          Coker 310          Deltapine 61          Acala 1517-77          Tamcot Sp 21	1.10 e 1.14 d 1.18 c 1.16 d 1.21 b 1.10 e	0.53 b .53 b .55 b .54 b .60 a .51 c	74.6 e 73.5 h 73.7 g 75.9 a 74.0 f 75.8 b	Hunter's b value  9.2 a 8.8 ab 9.2 a 9.1 ab 8.6 ab 8.6 ab	tenacity (cN/tex) 11.8 cd 11.1 e 12.0 c 11.4 cde 14.9 a 11.6 cde

Table 38.--Western test: Yield, boll, and spinning data by test location

Location	Lint yield	Boll size	Lint	Seed	Micronaire
	(1b/acre)	(g/boll)	percent	index	reading
Phoenix, AZ	1407 a	5.68 b	35.7 b	11.7 b	4.92 a
Las Cruces, NM	1310 b	6.73 a	37.3 a	12.0 a	4.27 d
Yuma, AZ	940 c	5.31 c	37.3 a	11.1 c	4.78 b
El Paso, TX	763 d	5.43 c	37.5 a	11.2 c	4.48 c
	Span length (	inches) 50%	$\frac{\text{Color}}{R_{d}}$	rimeter Hunter's b value	Yarn tenacity (cN/tex)
Phoenix, AZ Las Cruces, NM Yuma, AZ El Paso, TX	1.14 c	0.54 b	76.8 a	9.3 b	12.8 ab
	1.22 a	.59 a	73.8 c	7.2 d	12.2 c
	1.11 d	.52 c	76.6 b	10.0 a	12.4 bc
	1.16 b	.55 b	71.1 d	8.1 c	12.9 a

Table 39.--Western test: Combined yield, boll, and spinning data for Yuma and Phoenix, Ariz., by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire rea <b>d</b> ing
Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61  McNair 220  Stoneville 213  Coker 310  Tamcot Sp 21  Paymaster 303  Acala SJ-5  Acala 1517-75  Acala 1517-77	1468 a 1394 a 1350 ab 1218 bc 1089 c 1086 c 1061 c 1060 c 1059 c	5.16 5.17 4.95 5.81 5.38 6.15 6.11 5.26 5.50	37.7 37.9 36.0 36.7 38.5 36.2 37.9 34.7 33.0	10.1 10.6 10.5 11.5 11.0 12.1 12.1 12.4	5.25 5.07 5.17 5.00 4.67 4.87 4.62 4.42 4.60
	Span length (i	inches)	Color	rimeter	Yarn
	2.5%	50%	$\frac{R_d}{R_d}$	Hunter's b value	tenacity (cN/tex)
Deltapine 61  McNair 220  Stoneville 213  Coker 310  Tamcot Sp 21  Paymaster 303  Acala SJ-5  Acala 1517-75  Acala 1517-77	1.12 1.08 1.11 1.14 1.08 1.04 1.17 1.20 1.19	0.52 .52 .52 .53 .50 .48 .57 .56	77.2 76.4 76.4 74.9 78.4 76.5 76.3 77.8 76.5	9.8 10.4 10.0 10.4 9.7 7.8 9.8 9.1 9.9	11.3 11.6 11.2 11.9 11.5 11.2 14.5 15.6 14.8

Table 40.--Western test: Combined yield, boll, and spinning data for El Paso, Tex., and Las Cruces, N. Mex., by cotton variety

Variety	Lint yield (1b/acre)	Boll Size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	1244 a	5.70	39.6	10.6	4.60
Acala 1517-77	1116 ab	6.31	34.7	12.6	4.30
Stoneville 213	1088 ab	5.55	36.8	11.1	4.47
Tamcot Sp 21	1073 ab	6.05	39.5	11.5	4.45
Acala 1517-75	1033 ab	6.06	36.5	12.5	4.12
Coker 310	1031 b	5.89	37.4	11.2	4.17
Acala SJ-5	931 b	7.11	38.4	12.2	4.47
Paymaster 303	910 b	6.39	36.4	12.1	4.36
Paymaster 303 Deltapine 61	902 b	5.65	37.5	11.0	4.50
	Span length (	(inches)	Color	rimeter	Yarn
	Span length (	(inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
McNair 220				Hunter's	tenacity
McNair 220 Acala 1517-77	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
	1.13	0.54	72.8	Hunter's b value	tenacity (cN/tex)
Acala 1517-77	1.13 1.24	0.54 .61	72.8 71.5	Hunter's b value  8.0 7.3	tenacity (cN/tex) 12.1 15.0
Acala 1517-77 Stoneville 213	1.13 1.24 1.17	0.54 .61 .55	72.8 71.5 70.6	Hunter's b value  8.0 7.3 7.6	tenacity (cN/tex) 12.1 15.0 11.0
Acala 1517-77 Stoneville 213 Tamcot Sp 21	1.13 1.24 1.17 1.12	0.54 .61 .55 .52	72.8 71.5 70.6 73.1	Hunter's b value  8.0 7.3 7.6 7.4	tenacity (cN/tex)  12.1 15.0 11.0 11.7
Acala 1517-77  Stoneville 213  Tamcot Sp 21  Acala 1517-75	1.13 1.24 1.17 1.12 1.29	0.54 .61 .55 .52	72.8 71.5 70.6 73.1 73.7	Hunter's b value  8.0 7.3 7.6 7.4 7.3	tenacity (cN/tex)  12.1 15.0 11.0 11.7 14.2
Acala 1517-77  Stoneville 213  Tamcot Sp 21  Acala 1517-75  Coker 310	1.13 1.24 1.17 1.12 1.29 1.23	0.54 .61 .55 .52 .62 .56	72.8 71.5 70.6 73.1 73.7 72.6	Hunter's b value  8.0 7.3 7.6 7.4 7.3 8.1	tenacity (cN/tex)  12.1 15.0 11.0 11.7 14.2 12.1

Table 41.--Western test: Yield, boll, and spinning data for Las Cruces, N. Mex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	1643 a	6.25	38.0	11.1	4.15
Acala 1517-77	1456 в	6.88	35.3	12.7	4.30
Coker 310	1442 b	6.52	37.9	11.5	4.20
Tamcot Sp 21	1379 bc	6.68	39.2	12.0	4.50
Acala 1517-75	1378 bc	6.72	36.9	12.7	4.15
Paymaster 303	1205 cd	7.10	36.7	12.7	4.25
Stoneville 213	1194 cd	6.21	36.6	11.9	4.25
Deltapine 61	1059 d	6.38	37.3	11.6	4.35
Acala SJ-5	1030 d	7.81	38.1	12.5	4.35
	Span length (	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
McNair 220	1.18	.56	74.2	7.3	12.0
Acala 1517-77	1.24	.61	72.4	6.8	14.4
Coker 310	1.25	.60	74.3	7.8	11.8
Tamcot Sp 21	1.15	.55	72.9	6.9	11.7
Acala 1517-75	1.32	. 65	75.9	7.1	14.3
	1 17	.56	72.2	7.5	11.0
Paymaster 303	1.17	. 30	12.2	7.5	11.0
Paymaster 303 Stoneville 213	1.17	.57	72.7	7.0	10.3

Table 42.--Western test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	1618 a	5.32	36.9	10.5	5.15
Stoneville 213	1609 a	5.07	35.4	10.7	5.35
McNair 220	1519 ab	5.40	36.8	11.0	5.20
Tamcot Sp 21	1360 bc	5.40	37.2	10.9	4.65
Coker 310	1356 bc	5.85	35.5	11.7	5.05
Acala 1517-75	1336 bc	5.65	34.5	13.1	4.65
Acala 1517-77	1313 c	5.90	32.6	12.7	4.75
Paymaster 303	1280 c	6.27	35.5	12.7	4.85
Acala SJ-5	1272 c	6.32	37.1	12.3	4.70
	Control of the control of	2 1 N	Cala	· · · · · ·	V
	Span length (	inches) 50%	$\frac{Color}{R_d}$	Hunter's  b value	Yarn tenacity (cN/tex)
Deltapine 61				Hunter's	tenacity
Deltapine 61	2.5%	50%	$\overline{R}_d$	Hunter's b value	tenacity (cN/tex)
Deltapine 61 Stoneville 213	1.17	0.55	77.3	Hunter's b value	tenacity (cN/tex)
Deltapine 61 Stoneville 213 McNair 220	1.17	50% 0.55 .54	77.3 76.6	Hunter's b value  9.8 9.9	tenacity (cN/tex) 11.6 11.2
Deltapine 61 Stoneville 213 McNair 220 Tamcot Sp 21	1.17 1.13 1.09	0.55 .54 .52	77.3 76.6 77.0	Hunter's b value  9.8 9.9 10.3	tenacity (cN/tex) 11.6 11.2 11.7
Deltapine 61 Stoneville 213 McNair 220 Tamcot Sp 21 Coker 310	1.17 1.13 1.09 1.08	50% 0.55 .54 .52 .50	77.3 76.6 77.0 77.9	Hunter's b value  9.8 9.9 10.3 9.7	tenacity (cN/tex) 11.6 11.2 11.7
	1.17 1.13 1.09 1.08 1.15	50%  0.55  .54  .52  .50  .55	77.3 76.6 77.0 77.9 75.5	9.8 9.9 10.3 9.7	tenacity (cN/tex) 11.6 11.2 11.7 11.7
Deltapine 61 Stoneville 213 McNair 220 Tamcot Sp 21 Coker 310	1.17 1.13 1.09 1.08 1.15 1.21	50%  0.55 .54 .52 .50 .55 .57	77.3 76.6 77.0 77.9 75.5 77.5	9.8 9.9 10.3 9.7 10.1 9.1	tenacity (cN/tex) 11.6 11.2 11.7 11.7 12.5 16.0

Table 43.--Western test: Yield, boll, and spinning data for Yuma, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1090 a	4.83	36.7	10.4	5.00
Coker 310	1079 a	5.78	37.9	11.3	4.95
Deltapine 61	1076 a	5.00	38.6	9.6	5.35
McNair 220	1068 a	4.94	39.0	10.2	4.95
Paymaster 303	891 ab	6.03	36.9	11.5	4.90
Acala SJ-5	849 Ъ	5.90	38.7	12.0	4.55
Tamcot Sp 21	818 b	5.37	39.8	11.2	4.70
Acala 1517-77	805 Ъ	5.11	33.5	12.1	4.45
Acala 1517-75	783 b	4.87	34.9	11.7	4.20
	Span length (	inches)	Color	rimeter	Yarn
	2.5%	50%	$\overline{R}_d$	Hunter's b value	tenacity (cN/tex)
Stoneville 213	1.10	0.50	76.3	10.1	11.2
Coker 310	1.14	.52	74.3	10.7	11.3
Deltapine 61	1.08	.50	77.1	9.8	11.0
McNair 220	1.08	.52	75.8	10.5	11.5
Paymaster 303	1.02	.48	77.2	10.2	10.8
Acala SJ-5	1.16	.56	75.6	9.7	14.8
Tamcot Sp 21	1.07	.49	79.0	9.8	11.4
•	1.17	.56	76.5	10.3	14.8
Acala 1517-77	1 • 1 /	• 5 0			

Table 44.--Western test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	981 a	4.90	37.0	10.3	4.70
McNair 220	845 ab	5.16	41.2	10.1	5.05
Acala SJ-5	832 ab	6.42	38.7	11.9	4.60
Acala 1517-77	776 ab	5.75	34.2	12.6	4.30
Tamcot Sp 21	766 ab	5.41	39.8	11.0	4.40
Deltapine 61	744 b	4.91	37.7	10.5	4.80
Acala 1517-75	687 b	5.40	36.1	12.4	4.10
Coker 310	619 b	5.25	36.8	10.9	4.15
Paymaster 303	614 b	5.69	36.1	11.6	4.43
·					
	Span length (	(inches)	Color	rimeter	Yarn
	Span length (	(inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Stoneville 213				Hunter's	tenacity
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
Stoneville 213	1.15	0.53	8.6	Hunter's b value	tenacity (cN/tex)
Stoneville 213 McNair 220	1.15 1.07	0.53 .53	68.6 71.5	Hunter's b value  8.3 8.7	tenacity (cN/tex) 11.8 12.2
Stoneville 213 McNair 220 Acala SJ-5	1.15 1.07 1.21	0.53 .53 .59	68.6 71.5 72.1	Hunter's b value  8.3 8.7 7.5	tenacity (cN/tex) 11.8 12.2 14.8
Stoneville 213 McNair 220 Acala SJ-5 Acala 1517-77	1.15 1.07 1.21 1.24	0.53 .53 .59 .61	68.6 71.5 72.1 70.6	Hunter's b value  8.3 8.7 7.5 7.7	tenacity (cN/tex) 11.8 12.2 14.8 15.7
Stoneville 213 McNair 220 Acala SJ-5 Acala 1517-77 Tamcot Sp 21	1.15 1.07 1.21 1.24 1.10	50% 0.53 .53 .59 .61 .49	68.6 71.5 72.1 70.6 73.4	Hunter's b value  8.3 8.7 7.5 7.7 8.0	tenacity (cN/tex) 11.8 12.2 14.8 15.7 11.7
Stoneville 213  McNair 220  Acala SJ-5  Acala 1517-77  Tamcot Sp 21  Deltapine 61	1.15 1.07 1.21 1.24 1.10 1.15	0.53 .53 .59 .61 .49	68.6 71.5 72.1 70.6 73.4 . 73.0	Hunter's b value  8.3 8.7 7.5 7.7 8.0 8.8	tenacity (cN/tex) 11.8 12.2 14.8 15.7 11.7

## SAN JOAQUIN VALLEY CONTINUOUS COTTON VARIETY TEST

Table 45.--San Joaquin test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield	Boll size	Lint	Seed	Micronaire
	(lb/acre)	(g/boll)	percent	index	reading
Acala SJ-2	877 a	6.67 a	35.5 ab	12.8 a	4.13 a
Stoneville 213	842 ab	4.97 c	33.9 b	10.5 c	4.06 ab
Acala SJ-5	839 ab	6.48 a	36.3 a	11.9 ab	4.13 a
Paymaster 303 Coker 310	747 ab	5.91 ab	35.1 ab	11.4 bc	4.01 b
	701 b	5.35 bc	36.0 a	10.5 c	3.88 b
	Span length (i 2.5%	nches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Acala SJ-2 Stoneville 213 Acala SJ-5 Paymaster 303 Coker 310	1.20 a 1.15 b 1.19 a 1.10 c 1.19 a	0.55 a .51 b .54 a .48 c .52 b	74.3 a 75.1 a 75.2 a 74.9 a 74.6 a	8.4 bc 8.7 a 8.4 c 8.6 ab 8.3 c	13.9 b 11.6 d 14.6 a 11.4 d 12.6 c

Table 46.--San Joaquin test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
West Side Field Station, CA Maricopa, CA	1056 a 1024 a	5.80 a 5.92 a	36.0 a 36.4 a	10.9 b 11.1 b	4.27 a 4.36 a
Madera, CA	324 b	5.91 a	33.7 b	12.2 a	3.51 b
		. ,			
	Span length ( 2.5%	50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
West Side Field Station, CA				Hunter's	tenacity

Table 47.--San Joaquin test: Yield, boll, and spinning data for West Side Field Station (Five Points), Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
			,		· · · · · · · · · · · · · · · · · · ·
Acala SJ-2	1204 a	6.73	36.3	13.0	4.40
Acala SJ-5	1163 a	6.49	35.7	11.6	4.30
Stoneville 213	1102 a	4.82	35.2	10.1	4.20
Paymaster 303	1002 a	5.99	36.7	10.8	4.30
Coker 310	811 a	4.98	36.3	9.2	4.15
	Span length (	inches) 50%	$\frac{Color}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Acala SJ-2 Acala SJ-5 Stoneville 213 Paymaster 303 Coker 310	1.24 1.23 1.19 1.15	0.59 .57 .55	76.9 77.9 77.3 78.1	9.1 9.0 9.5 9.5	14.5 15.1 12.2 12.1
	1.23	. 55	78.1	9.0	13.2

Table 48.--San Joaquin test: Yield, boll, and spinning data for Maricopa, Calif.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1104 a	5.14	34.6	10.9	4.50
Acala SJ-2	1079 a	7.08	36.9	12.6	4.45
Acala SJ-5	1046 b	6.47	38.1	11.6	4.35
Coker 310	1021 b	5.57	37.4	10.4	4.10
Paymaster 303	869 c	5.36	35.0	10.2	4.40
	Span length (	(inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacith (cN/tex)
Stoneville 213	1.14	0.51	77.0	9.2	11.0
Acala SJ-2	1.18	.53	74.4	8.6	13.3
Acala SJ-5	1.17	.53	76.8	8.5	14.3
Coker 310	1.16	.50	75.9	8.6	12.3
			77.0		10.7

Table 49.--San Joaquin test: Yield, boll, and spinning data for Madera, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Paymaster 303 Acala SJ-2 Stoneville 213 Acala SJ-5 Coker 310	369 a 348 ab 320 bc 310 c 272 d	6.40 6.20 4.96 6.47 5.52	33.6 33.4 32.0 35.3 34.5	13.4 12.8 10.7 12.5 12.0	3.35 3.55 3.50 3.75 3.40
	Span length (	50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Paymaster 303 Acala SJ-2 Stoneville 213 Acala SJ-5 Coker 310	1.10 1.19 1.12 1.18 1.19	0.48 .54 .47 .54	69.6 71.6 71.1 71.0 70.0	7.5 7.6 7.5 7.6 7.5	11.5 13.9 11.6 14.5 12.4

## HIGH-QUALITY REGIONAL COTTON VARIETY TEST

Table 50.--High-quality test: Yield, boll, and spinning data by cotton variety

riety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
ker 4601	978 a	5.37 bcd	39.1 cd	11.6 cde	4.63 f
Nair 3150	967 a	5.10 de	39.0 de	11.5 def	4.86 bc
Nair 3151	963 a	5.67 ab	36.3 h	11.8 bcd	4.96 b
4548	943 ab	4.99 e	40.6 a	11.6 cde	4.83' cd
ker 6118 oneville 213	935 ab 935 ab	4.99 e 5.44 abcd	38.2 f 38.4 f	11.8 bc 11.2 fg	5.28 a 5.25 a
. 63-277-1B	905 ab	5.37 bcd	38.6 ef	11.2 1g 11.4 ef	4.69 ef
1tapine 264	896 ab	5.28 cde	34.3 i	12.0 b	4.56 f
ker 310	894 ab	5.36 bcd	38.6 ef	11.2 fg	4.71 def
oneville 1395	880 abc	5.21 cde	39.6 bc	11.8 bc	5.20 a
4585	866 abc	5.39 cde	34.3 i	12.0 b	4.56 f
oneville 1434	840 abcd	5.26 cde	36.3 h	11.8 bc	4.80 cde
Nair 3034	810 bcd	5.67 ab	39.8 b	11.2 fg	4.80 cde
. 63-277J	740 cd	5.74 a	37.2 g	12.5 a	4.42 g
695	687 d	4.98 e	37.3 g	11.0 g	4.84 c
			70 1 1	11 () 6	1 07 h
ala SJ-5	493 e	5.53 abc	38.1 f	11.9 bc	4.07 h
ala SJ-5	Span length (	inches)	Color	imeter	Yarn
ala SJ-5					
ala SJ-5	Span length (	inches)	Color	imeter Hunter's	Yarn tenacity
ker 4601 Nair 1350	Span length (2.5%  1.18 a 1.12 de	0.53 def .51 g	Color $R_d$ 73.1 c 73.5 abc	imeter  Hunter's b value  8.4 ef 8.2 fg	Yarn tenacity (cN/tex)
ker 4601 Nair 1350 Nair 3151	Span length (2.5%  1.18 a 1.12 de 1.13 cd	0.53 def .51 g .53 fg	Color $R_d$ 73.1 c 73.5 abc 72.5 c	Hunter's b value  8.4 ef 8.2 fg 8.1 fg	Yarn tenacity (cN/tex)  12.7 b 11.6 cd 11.8 cd
ker 4601 Nair 1350 Nair 3151	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a	0.53 def .51 g .53 fg .56 ab	73.1 c 73.5 abc 72.5 c 72.9 c	Hunter's b value  8.4 ef 8.2 fg 8.1 fg 8.4 def	Yarn tenacity (cN/tex) 12.7 b 11.6 cd 11.8 cd 13.8 a
ker 4601 Nair 1350 Nair 3151 4548	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a	0.53 def .51 g .53 fg .56 ab .54 cdef	73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d	Hunter's b value  8.4 ef 8.2 fg 8.1 fg 8.4 def 8.7 abc	Yarn tenacity (cN/tex) 12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc
ker 4601 Nair 1350 Nair 3151 4548 ker 6118	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.11 de	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg	73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c	Hunter's b value  8.4 ef 8.2 fg 8.1 fg 8.4 def 8.7 abc 8.6 bcd	Yarn tenacity (cN/tex)  12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d
ker 4601 Nair 1350 Nair 3151 4548 ker 6118 oneville 213	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.11 de 1.16 a	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg .55 abc	73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c 72.4 c	Hunter's b value  8.4 ef 8.2 fg 8.1 fg 8.4 def 8.7 abc 8.6 bcd 8.5 cdef	Yarn tenacity (cN/tex) 12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d 13.0 b
ker 4601 Nair 1350 Nair 3151 4548 ker 6118 oneville 213 63-277-1B	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.11 de 1.16 a 1.18 a	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg .55 abc .52 fg	Color R _d 73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c 72.4 c 74.1 a	Hunter's b value  8.4 ef 8.2 fg 8.1 fg 8.4 def 8.7 abc 8.6 bcd 8.5 cdef 8.0 g	Yarn tenacity (cN/tex) 12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d 13.0 b 13.1 b
ker 4601	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.11 de 1.16 a 1.18 a 1.18 a 1.18 a	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg .55 abc .52 fg .54 abcdef	Color  R d  73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c 72.4 c 74.1 a 72.4 c	Hunter's b value  8.4 ef 8.2 fg 8.1 fg 8.4 def 8.7 abc 8.6 bcd 8.5 cdef 8.0 g 8.5 cdef	Yarn tenacity (cN/tex)  12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d 13.0 b 13.1 b 12.7 b
ker 4601 Nair 1350 Nair 3151 4548 ker 6118 oneville 213 1tapine 264 ker 310 oneville 1395	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.11 de 1.16 a 1.18 a 1.18 a 1.18 a 1.18 a 1.18 a	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg .55 abc .52 fg .54 abcdef .56 a	Color R _d 73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c 72.4 c 74.1 a 72.4 c 72.5 c	### Hunter's b value  8.4 ef 8.2 fg 8.1 fg 8.4 def 8.7 abc 8.6 bcd 8.5 cdef 8.0 g 8.5 cdef 8.3 f	Yarn tenacity (cN/tex)  12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d 13.0 b 13.1 b 12.7 b 13.7 a
ker 4601	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.11 de 1.16 a 1.18 a 1.18 a 1.18 a 1.18 a 1.18 a 1.18 a	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg .55 abc .52 fg .54 abcdef .56 a .55 abcde	Color  Rd  73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c 72.4 c 74.1 a 72.4 c 72.5 c 73.0 c	### ##################################	Yarn tenacity (cN/tex)  12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d 13.0 b 13.1 b 12.7 b 13.7 a 13.3 ab
ker 4601 Nair 1350 Nair 3151 4548 ker 6118 oneville 213 1tapine 264 ker 310 oneville 1395	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.11 de 1.16 a 1.18 a 1.18 a 1.18 a 1.18 a 1.19 a	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg .55 abc .52 fg .54 abcdef .56 a .55 abcde	Color  Rd  73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c 72.4 c 74.1 a 72.4 c 72.5 c 73.0 c	### Hunter's b value    8.4 ef	Yarn tenacity (cN/tex)  12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d 13.0 b 13.1 b 12.7 b 13.7 a 13.3 ab 14.0 a
ker 4601	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.11 de 1.16 a 1.18 a 1.18 a 1.18 a 1.18 a 1.19 a	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg .55 abc .52 fg .54 abcdef .56 a .55 abcde	Color  R d  73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c 72.4 c 74.1 a 72.4 c 72.5 c 73.0 c 72.8 c 73.9 ab	### Hunter's b value    8.4 ef	Yarn tenacity (cN/tex)  12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d 13.0 b 13.1 b 12.7 b 13.7 a 13.3 ab 14.0 a 11.9 cd
ker 4601 Nair 1350 4548 ker 6118 oneville 213 1tapine 264 ker 310 oneville 1395 4585 Nair 3034	Span length (2.5%  1.18 a 1.12 de 1.13 cd 1.18 a 1.16 a 1.16 a 1.18 a 1.18 a 1.16 a 1.18 a 1.18 a 1.16 a 1.17 a	0.53 def .51 g .53 fg .56 ab .54 cdef .52 fg .55 abc .52 fg .54 abcdef .56 a .55 abcde .55 abcde	Color  R d  73.1 c 73.5 abc 72.5 c 72.9 c 71.4 d 72.7 c 72.4 c 74.1 a 72.4 c 72.5 c 73.0 c 72.8 c 73.9 ab	### Hunter's b value  8.4 ef 8.2 fg 8.1 fg 8.4 def 8.7 abc 8.6 bcd 8.5 cdef 8.0 g 8.5 cdef 8.3 f 8.6 cde 8.2 fg 8.8 a 8.8 ab	Yarn tenacity (cN/tex)  12.7 b 11.6 cd 11.8 cd 13.8 a 12.0 bc 11.4 d 13.0 b 13.1 b 12.7 b 13.7 a 13.3 ab 14.0 a 11.9 cd 13.1 b

Table 51.-- High-quality test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint	Seed index	Micronaire reading
Florence, SC St. Joseph, LA	1299 a 1275 a	6.37 a 6.20 ab	39.2 c 39.7 b	11.0 e 12.0 c	4.78 c 5.15 a
Jackson, TN	930 b	5.87 cd	38.2 d	11.3 de	4.97 b
Portageville, MO	853 c	5.99 bc	38.1 d	13.0 a	5.09 a
College Station, TX	831 c	5.51 e	36.1 g	11.3 d	4.55 d
Belle Mina, AL	791 d	6.33 a	39.0 c	11.1 e	4.55 d
Stoneville, MS	789 d	5.71 de	36.7 f	12.1 c	4.76 c
Rohwer, AR	782 d	5.25 ef	37.3 e	12.8 b	4.96 b
Rocky Mt., NC Tifton, GA	681 e 340 f	6.12 abc 5.18 f	40.9 a 36.4 fg	10.1 f	4.80 c 4.37 e
	Span length (	inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Florence, SC	1.15 d	0.53 c	76.9 a	9.3 a	12.8 de
St. Joseph, LA	1.18 b	.57 a	74.6 c	8.6 c	13.8 a
Jackson, TN	1.14 de	.55 b	74.7 bc	9.2 a	13.6 ab
Portageville, MO	1.13 de	.51 d	69.4 f	8.5 cd	11.7 f
College Station, TX	1.16 c	.52 d	63.6 g	6.9 f	13.1 cd
Belle Mina, AL	1.14 de	.54 c	75.2 b	8.4 cd	12.1 f
Stoneville, MS	1.20 a	.56 b	74.3 cd	7.4 e	12.9 de
Rohwer, AR	1.17 c	.56 b	71.5 e	8.5 cd	12.6 e
Rocky Mt., NC Tifton, GA	1.10 f 1.13 e	.50 e .52 d	74.0 d 74.9 bc	8.8 b 8.4 d	12.6 e 13.3 bc

Table 52.--High-quality test: Combined yield, boll, and spinning data for College Station, Tex.; Stoneville, Miss.; St. Joseph, La.; Jackson, Tenn.; Portageville, Mo.; and Rohwer, Ark., by cotton variety

ariety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
eNair 3151	1041 a	6.06	36.4	11.9	5.07
Nair 3150	1025 ab	5.48	38.5	11.9	4.95
toneville 213	1012 abc	5.53	37.8	11.6	5.28
ker 4601	989 abc	5.93	38.7	12.2	4.75
er 6118	973 abc	5.40	37.9	12.3	5.39
apine 264	964 abc	5.72	33.7	12.4	4.68
53-277-1B	953 abc	5.67	38.2	11.9	4.81
eville 1395	940 abc	5.74	38.7	12.2	5.16
548	935 abc	5.39	39.6	12.2	4.92
r 310	917 abc	5.89	38.0	11.6	4.77
eville 1434	896 abc	5.66	35.9	12.1	4.76
63-277J	894 abc	6.05	36.9	12.9	4.51
4585	888 bc	5.88	38.7	12.4	5.01
Nair 3034	856 c	6.05	39.3	11.6	4.89
695	645 d	6.38	36.7	11.7	5.00
7 CT C	$\mathcal{L}\Lambda\Lambda$	6 27	37.8	12.5	4.65
cala SJ-5	644 d	6.23		12.5	
cala 5J-5	Span length (	inches)	Color	imeter	Yarn
cala SJ-5					
	Span length (	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
air 3151	Span length ( 2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter  Hunter's  b value  7.9	Yarn tenacity (cN/tex)
air 3151	Span length ( 2.5%	inches) 50%  0.54 .51	Color R _d 70.8 71.8	imeter Hunter's b value  7.9 8.0	Yarn tenacity (cN/tex)  11.5 11.6
air 3151 air 3150 neville 213	Span length ( 2.5% 1.13 1.12 1.12	inches) 50%  0.54 .51 .52	Color R _d 70.8  71.8  71.5	imeter Hunter's b value  7.9 8.0 8.4	Yarn tenacity (cN/tex)  11.5 11.6 11.5
air 3151 air 3150 neville 213 er 4601	Span length ( 2.5% 1.13 1.12 1.12 1.18	0.54 .51 .52 .54	70.8 71.8 71.5 71.6	imeter Hunter's b value  7.9 8.0 8.4 8.2	Yarn tenacity (cN/tex) 11.5 11.6 11.5 12.7
air 3151 air 3150 neville 213 er 4601	Span length ( 2.5%  1.13 1.12 1.12 1.18 1.17	inches) 50%  0.54 .51 .52 .54 .55	70.8 71.8 71.5 71.6 70.1	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4	Yarn tenacity (cN/tex)  11.5 11.6 11.5 12.7 12.0
Wair 3151	Span length ( 2.5% 1.13 1.12 1.12 1.18 1.17 1.19	0.54 .51 .52 .54 .55	Color  R d  70.8 71.8 71.5 71.6 70.1 72.8	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7	Yarn tenacity (cN/tex) 11.5 11.6 11.5 12.7 12.0 13.4
Nair 3151 Nair 3150 oneville 213 ker 4601 ker 6118 ltapine 264	Span length ( 2.5% 1.13 1.12 1.12 1.18 1.17 1.19 1.16	0.54 .51 .52 .54 .55 .53	70.8 71.8 71.5 71.6 70.1 72.8 70.6	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7 8.4	Yarn tenacity (cN/tex) 11.5 11.6 11.5 12.7 12.0 13.4 13.0
Nair 3151 Nair 3150 oneville 213 ker 4601 ker 6118 ltapine 264 63-277-1B oneville 1395	Span length ( 2.5% 1.13 1.12 1.12 1.18 1.17 1.19 1.16 1.19	0.54 .51 .52 .54 .55 .53 .56	Color  R d  70.8 71.8 71.5 71.6 70.1 72.8 70.6 71.1	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7 8.4 8.0	Yarn tenacity (cN/tex)  11.5 11.6 11.5 12.7 12.0 13.4 13.0 13.9
Nair 3151 Nair 3150 oneville 213 ker 4601 ker 6118 ltapine 264 oneville 1395 4548	Span length ( 2.5%  1.13 1.12 1.12 1.18 1.17 1.19 1.16 1.19 1.20	0.54 .51 .52 .54 .55 .53 .56	Color  R d  70.8  71.8  71.5  71.6  70.1  72.8  70.6  71.1  71.5	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7 8.4 8.0 8.3	Yarn tenacity (cN/tex)  11.5 11.6 11.5 12.7 12.0 13.4 13.0 13.9 14.0
Nair 3151 Nair 3150 Oneville 213 Ker 4601 Ker 6118 Itapine 264 Oneville 1395 A548 Ker 310	Span length ( 2.5%  1.13 1.12 1.12 1.18 1.17 1.19 1.16 1.19 1.20 1.19	inches) 50%  0.54 .51 .52 .54 .55 .53 .56 .58 .56 .58	Color  R d  70.8 71.8 71.5 71.6 70.1 72.8 70.6 71.1 71.5 70.6	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7 8.4 8.0 8.3 8.2	Yarn tenacity (cN/tex)  11.5 11.6 11.5 12.7 12.0 13.4 13.0 13.9 14.0 13.0
Jair 3151 Jair 3150 Oneville 213 Ser 4601 Ear 6118 Appine 264 Tapine 264 Oneville 1395 Appine 310 Oneville 1434	Span length ( 2.5% 1.13 1.12 1.12 1.18 1.17 1.19 1.16 1.19 1.20 1.19 1.14	inches) 50%  0.54 .51 .52 .54 .55 .53 .56 .58 .56 .58 .55	Color  R d  70.8 71.8 71.5 71.6 70.1 72.8 70.6 71.1 71.5 70.6 71.4	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7 8.4 8.0 8.3 8.2 7.9	Yarn tenacity (cN/tex)  11.5 11.6 11.5 12.7 12.0 13.4 13.0 13.9 14.0 13.0 14.3
air 3151 air 3150 neville 213 er 4601 er 6118 tapine 264 63-277-1B neville 1395 4548 er 310 neville 1434 63-277J	Span length ( 2.5% 1.13 1.12 1.12 1.18 1.17 1.19 1.16 1.19 1.20 1.19 1.14 1.17	inches) 50%  0.54 .51 .52 .54 .55 .53 .56 .58 .56 .58 .55 .55	Color  R d  70.8  71.8  71.5  71.6  70.1  72.8  70.6  71.1  71.5  70.6  71.4  70.9	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7 8.4 8.0 8.3 8.2 7.9 8.5	Yarn tenacity (cN/tex)  11.5 11.6 11.5 12.7 12.0 13.4 13.0 13.9 14.0 13.0 14.3 12.9
air 3151 air 3150 neville 213 er 4601 er 6118 tapine 264 63-277-1B neville 1395 4548 er 310 neville 1434	Span length ( 2.5% 1.13 1.12 1.12 1.18 1.17 1.19 1.16 1.19 1.20 1.19 1.14 1.17 1.18	inches) 50%  0.54 .51 .52 .54 .55 .53 .56 .58 .56 .55 .55 .55	Color  R d  70.8  71.8  71.5  71.6  70.1  72.8  70.6  71.1  71.5  70.6  71.1  71.5  70.6  71.3	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7 8.4 8.0 8.3 8.2 7.9 8.5 8.4	Yarn tenacity (cN/tex)  11.5 11.6 11.5 12.7 12.0 13.4 13.0 13.9 14.0 13.0 14.3 12.9 13.4
ir 3151	Span length ( 2.5% 1.13 1.12 1.12 1.18 1.17 1.19 1.16 1.19 1.20 1.19 1.14 1.17	inches) 50%  0.54 .51 .52 .54 .55 .53 .56 .58 .56 .58 .55 .55	Color  R d  70.8  71.8  71.5  71.6  70.1  72.8  70.6  71.1  71.5  70.6  71.4  70.9	imeter Hunter's b value  7.9 8.0 8.4 8.2 8.4 7.7 8.4 8.0 8.3 8.2 7.9 8.5	Yarn tenacity (cN/tex)  11.5 11.6 11.5 12.7 12.0 13.4 13.0 13.9 14.0 13.0 14.3 12.9

Table 53.--High-quality test: Combined yield, boll, and spinning data for Tifton, Ga.; Florence, S.C.; Rocky Mount, N.C.; and Belle Mina, Ala., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
PD 4548	955 a	5.66	42.1	10.4	4.67
Coker 4601	935 ab	5.86	39.7	10.3	4.43
McNair 3150	879 abc	5.82	39.7	10.6	4.71
Coker 6118	877 abc	5.61	38.6	10.9	5.11
Coker 310	859 bcd	5.91	39.4	10.4	4.62
McNair 3151	846 bcde	6.50	36.2	11.4	4.78
Mo. 63-277-1B	833 bcde	6.28	39.2	10.4	4.50
PD 4585	833 bcde	6.02	40.0	10.7	4.73
Stoneville 213	820 bcde	5.97	39.3	10.4	5.21
Deltapine 264	793 cde	5.94	35.3	11.3	4.38
Stoneville 1395	790 cde	5.73	40.8	10.9	5.27
Stoneville 1434	756 de	5.98	36.8	11.3	4.86
PD 695	751 de	5.64	38.3	9.8	4.60
McNair 3034	742 e	6.53	40.6	10.5	4.67
Mo. 63-277J	508 f	6.71	37.6	11.9	4.28
Acala SJ-5	268 g	5.86	38.6	10.6	3.18
Acara SJ-S					-
ACaia SJ-S	Span length (		Color	rimeter Hunter's	Yarn tenacity
ACaia SJ-S	Span length (	inches)		imeter	Yarn
PD 4548	Span length (	inches)	Color	rimeter Hunter's	Yarn tenacity
	Span length (	inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
PD 4548 Coker 4601	Span length (2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
PD 4548	Span length ( 2.5%	inches) 50%  0.54 .53	Color R _d 75.4 75.4	Hunter's b value  8.7 8.7	Yarn tenacity (cN/tex)
PD 4548	Span length ( 2.5% 1.15 1.16 1.11 1.14	inches) 50%  0.54 .53 .50	75.4 75.4 76.1	Hunter's b value  8.7 8.7 8.4	Yarn tenacity (cN/tex) 13.4 12.8 11.7
PD 4548	Span length (2.5%  1.15 1.16 1.11 1.14 1.16	0.54 .53 .50 .52	75.4 75.4 76.1 73.4	Hunter's b value  8.7 8.7 8.4 9.1	Yarn tenacity (cN/tex) 13.4 12.8 11.7 11.9
PD 4548	Span length ( 2.5% 1.15 1.16 1.11 1.14 1.16 1.13	0.54 .53 .50 .52 .53	75.4 75.4 76.1 73.4 75.1	######################################	Yarn tenacity (cN/tex) 13.4 12.8 11.7 11.9
PD 4548	Span length (2.5%  1.15 1.16 1.11 1.14 1.16 1.13 1.14	0.54 .53 .50 .52 .53 .53	75.4 75.4 75.4 76.1 73.4 75.1 75.0 75.0	### Hunter's b value  8.7 8.7 8.4 9.1 8.8 8.4 8.8	Yarn tenacity (cN/tex) 13.4 12.8 11.7 11.9 12.2 12.2
PD 4548	Span length (2.5%  1.15 1.16 1.11 1.14 1.16 1.13 1.14 1.13	0.54 .53 .50 .52 .53 .53 .55	Color R _d 75.4  75.4  76.1  73.4  75.1  75.0  75.0  75.5	### ##################################	Yarn tenacity (cN/tex)  13.4 12.8 11.7 11.9 12.2 12.2 13.0 13.1
PD 4548	Span length ( 2.5% 1.15 1.16 1.11 1.14 1.16 1.13 1.14 1.13 1.10	0.54 .53 .50 .52 .53 .53 .55	Color R _d 75.4  75.4  76.1  73.4  75.1  75.0  75.0  75.5  74.6	### Hunter's b value  8.7 8.7 8.4 9.1 8.8 8.4 8.8	Yarn tenacity (cN/tex) 13.4 12.8 11.7 11.9 12.2 12.2 13.0 13.1 11.4
PD 4548	Span length (2.5%  1.15 1.16 1.11 1.14 1.16 1.13 1.14 1.17	inches) 50%  0.54 .53 .50 .52 .53 .55 .53 .55 .53 .55	Color R _d 75.4  75.4  76.1  73.4  75.1  75.0  75.0  75.5  74.6  76.0	######################################	Yarn tenacity (cN/tex)  13.4 12.8 11.7 11.9 12.2 12.2 13.0 13.1
PD 4548	Span length (2.5%  1.15 1.16 1.11 1.14 1.16 1.13 1.14 1.17 1.10	inches) 50%  0.54 .53 .50 .52 .53 .55 .53 .55 .53 .52 .52	Color R _d 75.4  75.4  76.1  73.4  75.1  75.0  75.0  75.5  74.6  76.0  74.9	**************************************	Yarn tenacity (cN/tex)  13.4 12.8 11.7 11.9 12.2 12.2 13.0 13.1 11.4 12.5 13.4
PD 4548	Span length (2.5%  1.15 1.16 1.11 1.14 1.16 1.13 1.14 1.13 1.10 1.07	inches) 50%  0.54 .53 .50 .52 .53 .55 .53 .55 .52 .52 .52	Color Rd  75.4 75.4 75.4 76.1 73.4 75.1 75.0 75.0 75.5 74.6 76.0 74.9 75.0	### Hunter's b value  8.7 8.7 8.4 9.1 8.8 8.4 8.8 8.9 8.4 8.9 8.6	Yarn tenacity (cN/tex)  13.4 12.8 11.7 11.9 12.2 12.2 13.0 13.1 11.4 12.5 13.4 13.6
PD 4548	Span length (2.5%  1.15 1.16 1.11 1.14 1.16 1.13 1.14 1.13 1.10 1.17 1.10 1.07 1.12	inches) 50%  0.54 .53 .50 .52 .53 .55 .53 .55 .52 .52 .52 .52 .52	Color Rd  75.4  75.4  76.1  73.4  75.1  75.0  75.0  75.5  74.6  76.0  74.9  75.0  76.0	8.7 8.7 8.7 8.4 9.1 8.8 8.4 8.8 8.9 8.4	Yarn tenacity (cN/tex)  13.4 12.8 11.7 11.9 12.2 12.2 13.0 13.1 11.4 12.5 13.4 13.6 12.8
PD 4548	Span length (2.5%  1.15 1.16 1.11 1.14 1.16 1.13 1.14 1.13 1.10 1.07	inches) 50%  0.54 .53 .50 .52 .53 .55 .53 .55 .52 .52 .52	Color Rd  75.4 75.4 75.4 76.1 73.4 75.1 75.0 75.0 75.5 74.6 76.0 74.9 75.0	### Hunter's b value  8.7 8.7 8.4 9.1 8.8 8.4 8.8 8.9 8.4 8.9 8.6	Yarn tenacity (cN/tex)  13.4 12.8 11.7 11.9 12.2 12.2 13.0 13.1 11.4 12.5 13.4 13.6

Table 54.--High-quality test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 4601	1535 a	6.10	41.0	10.5	4.55
PD 4548	1498 ab	5.95	42.0	10.6	4.80
Coker 310	1452 abc	6.21	40.0	10.4	4.75
Coker 6118	1437 abc	5.72	39.0	11.3	5.40
Stoneville 1395	1436 abc	6.42	41.0	11.3	5.50
Mo. 63-277-1B	1425 abc	6.61	39.6	11.0	4.50
McNair 3034	1396 abcd	6.64	40.5	10.7	4.65
McNair 3150	1393 abcd	6.58	40.6	10.9	4.65
Stoneville 213	1386 abcd	6.27	39.3	10.9	5.20
McNair 3151	1340 bcde	6.99	37.0	11.7	5.05
PD 4585	1337 bcde	6.56	39.6	11.2	4.70
Stoneville 1434	1295 cde	6.09	37.1	11.5	5.00
PD 695	1240 de	6.12	38.4	10.1	4.65
Deltapine 264	1206 e	6.19	36.5	11.5	4.65
Mo. 63-277J	956 f	7.06	36.9	12.3	4.25
Acala SJ-5	448 g	6.52	39.1	11.1	4.20
	Span length (	inches)	Colo	rimeter	Yarn
	2.5%	50%	$\overline{R}_d$	Hunter's	tenacity
			a	b value	(cN/tex)
Coker 4601	1.18	0.56	76.4	9.1	12.4
PD 4548	1.17	.56	75.9	9.1	13.4
Coker 310	1.16	.53	75.9	9.3	13.1
Coker 6118		.54	75.2	10.0	11.4
	1.14	.54	76.0	9.4	13.0
Mo. 63-277-1B	1.16	.54	76.4	9.3	12.6
McNair 3034	1.14	.52	77.9	9.5	12.5
	1.13	.52	79.0	8.9	12.5
Stoneville 213	1.11	.53	76.6	9.5	11.2
McNair 3151	1.14	.55	76.7	9.2	12.4
PD 4585	1.16	.55	76.9	9.1	14.3
Stoneville 1434	1.10	.52	78.1	8.9	13.2
PD 695	1.15	.51	78.5	8.6	14.0
Deltapine 264	1.16	.52	77.6	9.3	12.2
~	1.20	.57	76.5	9.9	13.4
		.54	76.9	9.2	13.8
Acala SJ-5	1 12	Γ.4	54.0	0 0	1 = 0

Table 55.--High-quality test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
PD 4548	1400 a	5.52	42.9	12.7	5.20
Coker 4601	1397 a	6.78	40.9	12.0	4.90
Coker 6118	1395 a	5.65	39.4	12.6	5.50
Coker 310	1372 a	6.71	39.8	11.7	5.00
McNair 3151	1359 a	6.82	37.5	11.5	5.15
PD 4585	1352 a	5.50	41.1	12.0	5.35
McNair 3150	1338 a	5.79	39.1	11.5	4.90
Stoneville 213	1324 a	5.86	40.5	11.7	5.60
McNair 3034	1319 a	5.60	42.2	11.4	5.20
Stoneville 1434	1318 a	6.82	37.9	12.0	5.30
Stoneville 1395	1277 a	6.69	40.6	12.4	5.50
Deltapine 264	1260 a	6.44	34.7	12.4	5.00
Mo. 63-277-1B	1219 a	6.28	39.8	11.7	5.00
PD 695	1204 ab	5.49	39.2	11.2	5.05
Mo. 63-277J	992 bc	6.54	39.4	12.6	4.75
Acala SJ-5	875 c Span length (		39.8 Color	imeter	5.00 Yarn
Acala SJ-5					
Aca1a SJ-5 PD 4548	Span length (	inches)	Color	imeter Hunter's	Yarn tenacity (cN/tex)
	Span length (	inches) 50%	$\frac{Color}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
PD 4548	Span length ( 2.5%	inches) 50%	Color $R_d$	imeterHunter's b value	Yarn tenacity (cN/tex)
PD 4548	Span length (2.5%  1.25 1.21	0.62 .57	Color R _d 74.9 75.6	imeter Hunter's b value  8.3 8.5	Yarn tenacity (cN/tex)
PD 4548	Span length (2.5%  1.25 1.21 1.17	0.62 .57 .56	Color R _d 74.9  75.6  73.4	imeter Hunter's b value  8.3 8.5 9.2	Yarn tenacity (cN/tex) 14.8 14.3 12.9
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23	0.62 .57 .56	74.9 75.6 73.4 73.5	imeter Hunter's b value  8.3 8.5 9.2 8.6	Yarn tenacity (cN/tex) 14.8 14.3 12.9 13.4
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14	0.62 .57 .56 .58	Color R _d 74.9  75.6  73.4  73.5  74.2	### ##################################	Yarn tenacity (cN/tex) 14.8 14.3 12.9 13.4 12.9
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14 1.19	0.62 .57 .56 .58 .55	74.9 75.6 73.4 73.5 74.2 75.1	### Hunter's b value  8.3 8.5 9.2 8.6 8.1 8.6	Yarn tenacity (cN/tex) 14.8 14.3 12.9 13.4 12.9 13.8
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14 1.19 1.14	0.62 .57 .56 .58 .55 .58	74.9 75.6 73.4 73.5 74.2 75.1 75.3	### Hunter's b value  8.3 8.5 9.2 8.6 8.1 8.6 8.5	Yarn tenacity (cN/tex) 14.8 14.3 12.9 13.4 12.9 13.8 12.2
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14 1.19 1.14 1.15	0.62 .57 .56 .58 .55 .58	Color R _d 74.9  75.6  73.4  73.5  74.2  75.1  75.3  75.4	#unter's b value  8.3 8.5 9.2 8.6 8.1 8.6 8.5 9.0	Yarn tenacity (cN/tex) 14.8 14.3 12.9 13.4 12.9 13.8 12.2 11.7
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14 1.19 1.14 1.15 1.20	0.62 .57 .56 .58 .55 .58 .52 .56	Color  R d  74.9  75.6  73.4  73.5  74.2  75.1  75.3  75.4  76.3	#unter's b value  8.3 8.5 9.2 8.6 8.1 8.6 8.5 9.0 9.0	Yarn tenacity (cN/tex)  14.8 14.3 12.9 13.4 12.9 13.8 12.2 11.7 13.3
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14 1.19 1.14 1.15 1.20 1.17	0.62 .57 .56 .58 .55 .58 .55 .58	Color  R d  74.9 75.6 73.4 73.5 74.2 75.1 75.3 75.4 76.3 74.9	imeter	Yarn tenacity (cN/tex)  14.8 14.3 12.9 13.4 12.9 13.8 12.2 11.7 13.3 14.9
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14 1.19 1.14 1.15 1.20 1.17 1.22 1.22	0.62 .57 .56 .58 .55 .58 .52 .56 .57	Color Rd  74.9 75.6 73.4 73.5 74.2 75.1 75.3 75.4 76.3 74.9 73.9	######################################	Yarn tenacity (cN/tex)  14.8 14.3 12.9 13.4 12.9 13.8 12.2 11.7 13.3 14.9 14.7
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14 1.19 1.14 1.15 1.20 1.17 1.22 1.22 1.16	0.62 .57 .56 .58 .55 .58 .55 .59	Color  R d  74.9  75.6  73.4  73.5  74.2  75.1  75.3  75.4  76.3  74.9  73.9  75.7	imeter  Hunter's b value  8.3 8.5 9.2 8.6 8.1 8.6 8.5 9.0 9.0 8.4 8.6 8.4	Yarn tenacity (cN/tex)  14.8 14.3 12.9 13.4 12.9 13.8 12.2 11.7 13.3 14.9 14.7 14.6
PD 4548	Span length (2.5%  1.25 1.21 1.17 1.23 1.14 1.19 1.14 1.15 1.20 1.17 1.22 1.22	0.62 .57 .56 .58 .55 .58 .52 .56 .57 .59 .62 .56	Color  R d  74.9 75.6 73.4 73.5 74.2 75.1 75.3 75.4 76.3 74.9 73.9 75.7 73.4	### Hunter's b value  8.3 8.5 9.2 8.6 8.1 8.6 8.5 9.0 9.0 8.4 8.6 8.4 8.6 8.4 8.6	Yarn tenacity (cN/tex)  14.8 14.3 12.9 13.4 12.9 13.8 12.2 11.7 13.3 14.9 14.7 14.6 14.0

Table 56.--High-quality test: Yield, boll, and spinning data for Portageville, Mo.

ariety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
toneville 213	1134 a	6.10	37.2	13.6	5.45
o. 63-277-1B	1090 ab	5.95	39.6	12.6	4.95
toneville 1395	1072 ab	5.95	39.2	13.6	5.45
cNair 3150	1049 ab	5.55	39.5	13.6	5.05
Nair 3151	1036 ab	5.75	37.0	12.8	5.25
63-277J	1034 ab	6.20	38.6	12.8	4.65
er 4601	1030 ab	5.95	39.9	13.2	5.00
tapine 264	1010 ab	6.15	34.4	13.4	4.65
r 310	913 bc	6.35	39.6	12.2	4.65
r 6118	898 bc	5.65	39.0	13.2	5.60
eville 1434	803 cd	6.00	35.6	13.6	4.65
548	755 cde	5.74	39.8	12.4	5.20
585	659 def	6.50	38.6	13.2	5.30
air 3034	575 ef	6.70	38.9	13.0	5.25
1a SJ-5	525 f	6.60	37.5	12.8	5.00
595	71 g	4.80	35.8	13.2	5.45
	Span length (	inches)	Color	imeter	Yarn
	2.5%	50%	$\overline{R}_d$	Hunter's b value	tenacith (cN/tex)
toneville 213 b. 63-277-1B toneville 1395 cNair 3150	1.08 1.15 1.15 1.09	0.48 .54 .54 .48	69.3 69.5 69.9 71.0	8.8 8.4 8.2 8.7	11.1 12.3 12.6 10.0
63-277-1B neville 1395 air 3150	1.15 1.15	.54 .54 .48 .51	69.5 69.9 71.0 69.3	8.4 8.2 8.7 8.4	12.3 12.6 10.0 10.3
63-277-1B neville 1395 air 3150 air 3151 63-277J	1.15 1.15 1.09	.54 .54 .48 .51 .54	69.5 69.9 71.0 69.3 69.3	8.4 8.2 8.7 8.4 8.7	12.3 12.6 10.0 10.3 10.8
63-277-1B  oneville 1395  Nair 3150  63-277J  cer 4601	1.15 1.15 1.09 1.12 1.18 1.17	.54 .54 .48 .51 .54	69.5 69.9 71.0 69.3 69.3 71.5	8.4 8.2 8.7 8.4 8.7	12.3 12.6 10.0 10.3 10.8 11.6
. 63-277-1B oneville 1395 Nair 3150 Nair 3151 . 63-277J ker 4601 ltapine 264	1.15 1.15 1.09 1.12 1.18 1.17	.54 .54 .48 .51 .54 .51	69.5 69.9 71.0 69.3 69.3 71.5	8.4 8.2 8.7 8.4 8.7 8.7	12.3 12.6 10.0 10.3 10.8 11.6 12.2
63-277-1B  oneville 1395  Nair 3150  63-277J  cer 4601  tapine 264  cer 310	1.15 1.15 1.09 1.12 1.18 1.17 1.17	.54 .54 .48 .51 .54 .51 .49	69.5 69.9 71.0 69.3 69.3 71.5 70.5	8.4 8.2 8.7 8.4 8.7 8.7 8.0 8.6	12.3 12.6 10.0 10.3 10.8 11.6 12.2 11.5
63-277-1B  oneville 1395  Nair 3150  63-277J  cer 4601  tapine 264  cer 310  cer 6118	1.15 1.15 1.09 1.12 1.18 1.17 1.17	.54 .54 .48 .51 .54 .51 .49 .52	69.5 69.9 71.0 69.3 69.3 71.5 70.5 69.5	8.4 8.2 8.7 8.4 8.7 8.7 8.0 8.6 8.9	12.3 12.6 10.0 10.3 10.8 11.6 12.2 11.5
63-277-1B  neville 1395  air 3150  63-277J  er 4601  tapine 264  er 310  neville 1434	1.15 1.15 1.09 1.12 1.18 1.17 1.17 1.16 1.13	.54 .54 .48 .51 .54 .51 .49 .52	69.5 69.9 71.0 69.3 69.3 71.5 70.5 69.5 68.7	8.4 8.2 8.7 8.4 8.7 8.7 8.0 8.6 8.9	12.3 12.6 10.0 10.3 10.8 11.6 12.2 11.5 11.1
63-277-1B  neville 1395  air 3150  63-277J  er 4601  tapine 264  er 310  er 6118  neville 1434  4548	1.15 1.15 1.09 1.12 1.18 1.17 1.17 1.16 1.13 1.11	.54 .54 .48 .51 .54 .51 .49 .52 .50	69.5 69.9 71.0 69.3 69.3 71.5 70.5 69.5 68.7 68.6 68.0	8.4 8.2 8.7 8.4 8.7 8.7 8.0 8.6 8.9 8.2 8.9	12.3 12.6 10.0 10.3 10.8 11.6 12.2 11.5
63-277-1B  neville 1395  air 3150  63-277J  er 4601  tapine 264  er 310  er 6118  neville 1434  4548	1.15 1.09 1.12 1.18 1.17 1.17 1.16 1.13 1.11 1.15	.54 .54 .48 .51 .54 .51 .49 .52 .50 .54	69.5 69.9 71.0 69.3 69.3 71.5 70.5 69.5 68.7 68.6 68.0	8.4 8.2 8.7 8.4 8.7 8.0 8.6 8.9 8.2 8.9	12.3 12.6 10.0 10.3 10.8 11.6 12.2 11.5 11.1
63-277-1B neville 1395 nir 3150 63-277J er 4601 er 310 er 6118 heville 1434 4548 4585	1.15 1.15 1.09 1.12 1.18 1.17 1.17 1.16 1.13 1.11	.54 .54 .48 .51 .54 .51 .49 .52 .50 .54 .53	69.5 69.9 71.0 69.3 69.3 71.5 70.5 69.5 68.7 68.6 68.0 68.0	8.4 8.2 8.7 8.4 8.7 8.7 8.0 8.6 8.9 8.2 8.9	12.3 12.6 10.0 10.3 10.8 11.6 12.2 11.5 11.1
63-277-1B neville 1395 lair 3150 63-277J er 4601 tapine 264 er 310	1.15 1.09 1.12 1.18 1.17 1.17 1.16 1.13 1.11 1.15	.54 .54 .48 .51 .54 .51 .49 .52 .50 .54	69.5 69.9 71.0 69.3 69.3 71.5 70.5 69.5 68.7 68.6 68.0	8.4 8.2 8.7 8.4 8.7 8.0 8.6 8.9 8.2 8.9	12.3 12.6 10.0 10.3 10.8 11.6 12.2 11.5 11.1 12.9 14.2 12.4

Table 57.--High-quality test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1068 a	5.79	38.1	11.1	5.10
McNair 3151	1067 a	6.24	38.1	11.2	5.30
Mo. 63-277-1B	1065 a	5.98	38.6	11.1	4.80
Deltapine 264	1021 ab	5.83	34.8	11.2	4.60
Mo. 63-277J	995 ab	6.37	37.6	11.9	4.45
Coker 4601	992 ab	5.74	40.6	10.3	5.05
Coker 310	987 ab	6.09	39.3	10.7	5.00
Coker 6118	983 ab	5.31	38.6	11.4	5.50
PD 4548	967 ab	5.53	40.2	11.6	5.00
Stoneville 1395	938 b	5.51	39.6	11.2	5.25
McNair 1350	936 b	5.31	40.2	10.5	5.10
McNair 3034	935 b	6.30	39.7	11.0	5.00
PD 4585	915 b	6.05	38.2	11.7	5.00
Acala SJ-5	815 c	6.48	37.3	11.7	
	815 c	5.72			4.50
Stoneville 1434 PD 695	387 d	5.68	35.4 35.3	11.6 11.8	4.85 5.10
	Span length (		Color	rimeter	Yarn
	2.5%	E N 9	D	TT 4 1	
	2.30	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
Stoneville 213					(cN/tex)
Stoneville 213 McNair 3151	1.11	0.53	75.3	<i>b</i> value 9.4	(cN/tex)
McNair 3151	1.11 1.11	0.53	75.3 74.3	9.4 9.2	(cN/tex) 12.4 12.5
McNair 3151 Mo. 63-277-1B	1.11 1.11 1.14	0.53 .53 .58	75.3 74.3 74.6	9.4 9.2 9.5	(cN/tex) 12.4 12.5 14.5
McNair 3151 Mo. 63-277-1B Deltapine 264	1.11 1.11 1.14 1.16	0.53 .53 .58 .53	75.3 74.3 74.6 76.9	9.4 9.2 9.5 8.8	(cN/tex)  12.4 12.5 14.5 14.1
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J	1.11 1.11 1.14 1.16 1.17	0.53 .53 .58 .53 .56	75.3 74.3 74.6 76.9 73.8	9.4 9.2 9.5 8.8 9.7	12.4 12.5 14.5 14.1 13.3
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601	1.11 1.11 1.14 1.16 1.17 1.12	0.53 .53 .58 .53 .56	75.3 74.3 74.6 76.9 73.8 73.4	9.4 9.2 9.5 8.8 9.7 9.1	12.4 12.5 14.5 14.1 13.3 13.8
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310	1.11 1.11 1.14 1.16 1.17 1.12 1.15	0.53 .53 .58 .53 .56 .54	75.3 74.3 74.6 76.9 73.8 73.4 74.8	9.4 9.2 9.5 8.8 9.7 9.1	12.4 12.5 14.5 14.1 13.3 13.8 13.8
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310  Coker 6118	1.11 1.11 1.14 1.16 1.17 1.12 1.15	0.53 .53 .58 .53 .56 .54 .56	75.3 74.3 74.6 76.9 73.8 73.4 74.8 73.3	9.4 9.2 9.5 8.8 9.7 9.1 9.1	12.4 12.5 14.5 14.1 13.3 13.8 13.8
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310  Coker 6118  PD 4548	1.11 1.11 1.14 1.16 1.17 1.12 1.15 1.15	0.53 .53 .58 .53 .56 .54 .56 .56	75.3 74.3 74.6 76.9 73.8 73.4 74.8 73.3 75.2	9.4 9.2 9.5 8.8 9.7 9.1 9.1 9.3 9.3	12.4 12.5 14.5 14.1 13.3 13.8 13.8 12.7 15.0
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310  Coker 6118  PD 4548  Stoneville 1395	1.11 1.11 1.14 1.16 1.17 1.12 1.15 1.15 1.17	0.53 .53 .58 .53 .56 .54 .56 .56	75.3 74.3 74.6 76.9 73.8 73.4 74.8 73.3 75.2	9.4 9.2 9.5 8.8 9.7 9.1 9.1 9.3 9.3	(cN/tex)  12.4 12.5 14.5 14.1 13.3 13.8 13.8 12.7 15.0
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310  Coker 6118  PD 4548  Stoneville 1395  McNair 3150	1.11 1.11 1.14 1.16 1.17 1.12 1.15 1.15 1.17	0.53 .53 .58 .53 .56 .54 .56 .56 .57	75.3 74.3 74.6 76.9 73.8 73.4 74.8 73.3 75.2 75.4 74.8	9.4 9.2 9.5 8.8 9.7 9.1 9.3 9.3 9.3 9.3	(cN/tex)  12.4 12.5 14.5 14.1 13.3 13.8 13.8 12.7 15.0 15.0 11.1
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310  Coker 6118  PD 4548  Stoneville 1395  McNair 3150  McNair 3034	1.11 1.11 1.14 1.16 1.17 1.12 1.15 1.15 1.17 1.19 1.07	0.53 .53 .58 .53 .56 .54 .56 .56 .57 .59 .48	75.3 74.3 74.6 76.9 73.8 73.4 74.8 73.3 75.2 75.4 74.8 74.0	9.4 9.2 9.5 8.8 9.7 9.1 9.3 9.3 9.3 9.3	(cN/tex)  12.4 12.5 14.5 14.1 13.3 13.8 13.8 12.7 15.0 15.0 11.1 12.5
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310  Coker 6118  PD 4548  Stoneville 1395  McNair 3150  McNair 3034  PD 4585	1.11 1.11 1.14 1.16 1.17 1.12 1.15 1.15 1.17 1.19 1.07 1.12 1.16	0.53 .53 .58 .53 .56 .54 .56 .57 .59 .48 .54	75.3 74.3 74.6 76.9 73.8 73.4 74.8 73.3 75.2 75.4 74.8 74.0 74.7	9.4 9.2 9.5 8.8 9.7 9.1 9.3 9.3 9.3 9.4	(cN/tex)  12.4 12.5 14.5 14.1 13.3 13.8 13.8 12.7 15.0 15.0 11.1 12.5 13.2
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310  Coker 6118  PD 4548  Stoneville 1395  McNair 3150  McNair 3034  PD 4585  Acala SJ-5	1.11 1.14 1.16 1.17 1.12 1.15 1.15 1.17 1.19 1.07 1.12 1.16 1.15	0.53 .53 .58 .53 .56 .54 .56 .56 .57 .59 .48 .54 .56	75.3 74.3 74.6 76.9 73.8 73.4 74.8 73.3 75.2 75.4 74.8 74.0 74.7 76.0	9.4 9.2 9.5 8.8 9.7 9.1 9.3 9.3 9.3 9.4 8.9	(cN/tex)  12.4 12.5 14.5 14.1 13.3 13.8 13.8 12.7 15.0 15.0 11.1 12.5 13.2 16.0
McNair 3151  Mo. 63-277-1B  Deltapine 264  Mo. 63-277J  Coker 4601  Coker 310  Coker 6118  PD 4548  Stoneville 1395  McNair 3150  McNair 3034  PD 4585  Acala SJ-5	1.11 1.11 1.14 1.16 1.17 1.12 1.15 1.15 1.17 1.19 1.07 1.12 1.16	0.53 .53 .58 .53 .56 .54 .56 .57 .59 .48 .54	75.3 74.3 74.6 76.9 73.8 73.4 74.8 73.3 75.2 75.4 74.8 74.0 74.7	9.4 9.2 9.5 8.8 9.7 9.1 9.3 9.3 9.3 9.4	(cN/tex)  12.4 12.5 14.5 14.1 13.3 13.8 13.8 12.7 15.0 15.0 11.1 12.5 13.2

Table 58.--High-quality test: Yield, boll, and spinning data for College Station, Tex.

iety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronair reading
air 3150	997 a	5.54	37.9	11.2	4.85
4548	942 ab	4.95	38.7	11.0	4.25
air 3151	922 ab	6.05	34.9	11.3	4.65
tapine 264	909 abc	5.50	32.2	11.8	4.50
er 6118	900 abc	5.42	36.2	11.0	5.10
neville 213	875 abcd	5.46	36.5	10.6	5.00
4585	874 abcd	5.80	36.0	11.6	4.25
er 4601	869 abcd	5.46	36.4	11.4	4.30
neville 1434	814 abcd	5.06	35.3	10.8	4.45
695	811 abcd	5.20	35.7	10.2	4.55
air 3034	795 bcde	6.05	37.6	10.8	4.65
neville 1395	788 bcde	5.22	37.1	12.1	4.75
63-277J	783 bcde	5.70	34.7	12.4	4.15
63-277-1B	715 cde	5.38	36.5	11.5	4.50
er 310	686 de	5.71	35.0	11.3	4.50
1a SJ-5	Span length (			11.8 imeter	4.40 Yarn
la SJ-5					
	Span length (	inches) 50%	Color R _d	imeter Hunter's b value	Yarn tenacity (cN/tex)
air 3150	Span length (2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter  Hunter's  b value  6.5	Yarn tenacity (cN/tex)
nir 3150	Span length ( 2.5%	0.49 53	Color R _d 63.0 65.3	imeter Hunter's b value  6.5 7.1	Yarn tenacity (cN/tex)
air 3150 1548	Span length (2.5%  1.14 1.17 1.11	0.49 .53	Color R _d 63.0 65.3 62.0	imeter Hunter's b value  6.5 7.1 6.4	Yarn tenacity (cN/tex) 13.2 13.8 11.2
air 3150 4548 air 3151 tapine 264	Span length (2.5%  1.14 1.17 1.11 1.22	0.49 .53 .50	Color Rd 63.0 65.3 62.0 65.3	imeter Hunter's b value  6.5 7.1 6.4 5.8	Yarn tenacity (cN/tex) 13.2 13.8 11.2 12.9
air 3150 4548 air 3151 tapine 264	Span length (2.5%  1.14 1.17 1.11 1.22 1.16	0.49 .53 .50 .53	Color R _d 63.0 65.3 62.0 65.3 62.1	imeter  Hunter's b value  6.5 7.1 6.4 5.8 7.1	Yarn tenacity (cN/tex) 13.2 13.8 11.2 12.9 12.2
air 3150 4548 air 3151 tapine 264 er 6118	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10	0.49 .53 .50 .53 .54	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8	imeter  Hunter's  b value  6.5  7.1  6.4  5.8  7.1  6.9	Yarn tenacity (cN/tex) 13.2 13.8 11.2 12.9 12.9
air 3150 4548 air 3151 tapine 264 er 6118 neville 213	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20	0.49 .53 .50 .53 .54 .48	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8 64.7	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2	Yarn tenacity (cN/tex) 13.2 13.8 11.2 12.9 12.9 12.2
air 3150 4548 air 3151 tapine 264 er 6118 heville 213 4585	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20 1.21	0.49 .53 .50 .53 .54 .48 .55	Color R _d 63.0 65.3 62.0 65.3 62.1 63.8 64.7 62.9	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2 7.0	Yarn tenacity (cN/tex) 13.2 13.8 11.2 12.9 12.2 12.0 15.1 12.3
air 3150	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20 1.21 1.09	0.49 .53 .50 .53 .54 .48 .55 .52	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8 64.7 62.9 63.9	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2 7.0 6.7	Yarn tenacity (cN/tex) 13.2 13.8 11.2 12.9 12.9 12.2 12.0 15.1 12.3 14.1
air 3150	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20 1.21 1.09 1.17	0.49 .53 .50 .53 .54 .48 .55 .52 .50	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8 64.7 62.9 63.9 65.1	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2 7.0 6.7 6.5	Yarn tenacity (cN/tex) 13.2 13.8 11.2 12.9 12.2 12.0 15.1 12.3 14.1 13.1
air 3150	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20 1.21 1.09 1.17 1.16	0.49 .53 .50 .53 .54 .48 .55 .52 .50	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8 64.7 62.9 63.9 65.1 67.5	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2 7.0 6.7 6.5 7.8	Yarn tenacity (cN/tex)  13.2 13.8 11.2 12.9 12.2 12.0 15.1 12.3 14.1 13.1 11.6
air 3150	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20 1.21 1.09 1.17 1.16 1.20	0.49 .53 .50 .53 .54 .48 .55 .52 .50 .53	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8 64.7 62.9 63.9 65.1 67.5 61.8	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2 7.0 6.7 6.5 7.8 7.3	Yarn tenacity (cN/tex)  13.2 13.8 11.2 12.9 12.2 12.0 15.1 12.3 14.1 13.1 11.6 13.5
air 3150	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20 1.21 1.09 1.17 1.16 1.20 1.18	0.49 .53 .50 .53 .54 .48 .55 .52 .50 .53	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8 64.7 62.9 63.9 65.1 67.5 61.8 63.6	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2 7.0 6.7 6.5 7.8 7.3 7.4	Yarn tenacity (cN/tex)  13.2 13.8 11.2 12.9 12.2 12.0 15.1 12.3 14.1 13.1 11.6 13.5 13.3
air 3150	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20 1.21 1.09 1.17 1.16 1.20 1.17	0.49 .53 .50 .53 .54 .48 .55 .52 .50 .53 .50	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8 64.7 62.9 63.9 65.1 67.5 61.8 63.6 61.9	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2 7.0 6.7 6.5 7.8 7.3 7.4 7.5	Yarn tenacity (cN/tex)  13.2 13.8 11.2 12.9 12.2 12.0 15.1 12.3 14.1 13.1 11.6 13.5 13.3 12.2
air 3150	Span length (2.5%  1.14 1.17 1.11 1.22 1.16 1.10 1.20 1.21 1.09 1.17 1.16 1.20 1.18	0.49 .53 .50 .53 .54 .48 .55 .52 .50 .53	Color Rd  63.0 65.3 62.0 65.3 62.1 63.8 64.7 62.9 63.9 65.1 67.5 61.8 63.6	imeter Hunter's b value  6.5 7.1 6.4 5.8 7.1 6.9 7.2 7.0 6.7 6.5 7.8 7.3 7.4	Yarn tenacity (cN/tex)  13.2 13.8 11.2 12.9 12.2 12.0 15.1 12.3 14.1 13.1 11.6 13.5 13.3

Table 59.--High-quality test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 4601	989 a	6.08	43.1	9.6	4.55
Coker 6118	902 ab	5.72	40.4	10.6	5.00
PD 4548	883 ab	5.51	44.1	9.5	4.70
McNair 3150	814 bc	6.10	41.9	10.3	5.00
PD 4585	813 bc	5.98	43.1	9.7	5.00
Deltapine 264	779 bc	5.58	39.0	10.3	4.60
Coker 310	777 bc	6.02	41.2	9.8	4.60
PD 695	768 bc	5.51	40.7	9.2	4.75
McNair 3151	747 cd	6.78	38.1	10.6	4.55
Mo. 63-277-1B	736 cd	6.56	40.8	10.0	4.85
Stoneville 213	728 cd	5.90	42.0	9.7	5.50
Stoneville 1434	634 de	6.19	39.0	10.7	5.20
Stoneville 1395	602 e	6.01	42.2	10.2	5.30
McNair 3034	460 f	6.79	42.1	10.0	4.80
Mo. 63-277J	134 g	7.25	38.3	11.5	4.25
Acala SJ-5	126 g	6.03	38.9	10.4	4.25
	Span length (	inches) 50%	$\frac{Color}{R_d}$	Hunter's	Yarn tenacity
			α	b value	(cN/tex)
Coker 4601	1.13	0.52	75.1	<i>b</i> value  8.9	(cN/tex) 
Coker 4601 Coker 6118	1.13 1.14	.51	75.1 71.2	8.9 8.7	12.7 11.6
Coker 6118 PD 4548			75.1 71.2 74.4	8.9 8.7 8.6	12.7 11.6 14.1
Coker 6118	1.14	.51	75.1 71.2	8.9 8.7	12.7 11.6
Coker 6118  PD 4548  McNair 3150  PD 4585	1.14 1.12	.51 .51 .48 .49	75.1 71.2 74.4 75.2 74.4	8.9 8.7 8.6 8.5 9.0	12.7 11.6 14.1 11.7 12.7
Coker 6118 PD 4548 McNair 3150	1.14 1.12 1.08	.51 .51 .48	75.1 71.2 74.4 75.2	8.9 8.7 8.6 8.5	12.7 11.6 14.1 11.7 12.7 13.1
Coker 6118  PD 4548  McNair 3150  PD 4585	1.14 1.12 1.08 1.09	.51 .51 .48 .49	75.1 71.2 74.4 75.2 74.4	8.9 8.7 8.6 8.5 9.0	12.7 11.6 14.1 11.7 12.7
Coker 6118  PD 4548  McNair 3150  PD 4585  Deltapine 264	1.14 1.12 1.08 1.09 1.12	.51 .51 .48 .49 .48 .54	75.1 71.2 74.4 75.2 74.4 75.0	8.9 8.7 8.6 8.5 9.0 8.7 8.7	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6
Coker 6118	1.14 1.12 1.08 1.09 1.12 1.18	.51 .51 .48 .49 .48	75.1 71.2 74.4 75.2 74.4 75.0 73.8	8.9 8.7 8.6 8.5 9.0 8.7	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6 11.8
Coker 6118	1.14 1.12 1.08 1.09 1.12 1.18	.51 .51 .48 .49 .48 .54	75.1 71.2 74.4 75.2 74.4 75.0 73.8 73.8	8.9 8.7 8.6 8.5 9.0 8.7 8.7	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6 11.8
Coker 6118	1.14 1.12 1.08 1.09 1.12 1.18 1.07	.51 .51 .48- .49 .48 .54	75.1 71.2 74.4 75.2 74.4 75.0 73.8 73.8 75.1	8.9 8.7 8.6 8.5 9.0 8.7 8.7 8.4 8.3 9.4 9.0	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6 11.8
Coker 6118  PD 4548  McNair 3150  PD 4585  Deltapine 264  Coker 310  PD 695  McNair 3151  Mo. 63-277-1B	1.14 1.12 1.08 1.09 1.12 1.18 1.07 1.11	.51 .51 .48 .49 .48 .54 .48 .48	75.1 71.2 74.4 75.2 74.4 75.0 73.8 73.8 75.1 74.3	8.9 8.7 8.6 8.5 9.0 8.7 8.7 8.4 8.3 9.4	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6 11.8
Coker 6118	1.14 1.12 1.08 1.09 1.12 1.18 1.07 1.11 1.09	.51 .51 .48 .49 .48 .54 .48 .52	75.1 71.2 74.4 75.2 74.4 75.0 73.8 73.8 73.8 73.8	8.9 8.7 8.6 8.5 9.0 8.7 8.7 8.4 8.3 9.4 9.0	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6 11.8
Coker 6118	1.14 1.12 1.08 1.09 1.12 1.18 1.07 1.11 1.09 1.07	.51 .51 .48 .49 .48 .54 .48 .52 .50	75.1 71.2 74.4 75.2 74.4 75.0 73.8 73.8 75.1 74.3 73.0 72.4	8.9 8.7 8.6 8.5 9.0 8.7 8.7 8.4 8.3 9.4 9.0	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6 11.8 13.2 11.3 13.5 13.3
Coker 6118  PD 4548  McNair 3150  PD 4585  Deltapine 264  Coker 310  PD 695  McNair 3151  Mo. 63-277-1B  Stoneville 213  Stoneville 1434  Stoneville 1395	1.14 1.12 1.08 1.09 1.12 1.18 1.07 1.11 1.09 1.07 1.05 1.08	.51 .48- .49 .48 .54 .48 .52 .50	75.1 71.2 74.4 75.2 74.4 75.0 73.8 73.8 73.8 75.1 74.3 73.0 72.4 73.6	8.9 8.7 8.6 8.5 9.0 8.7 8.7 8.4 8.3 9.4 9.0 9.1	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6 11.8 13.2 11.3 13.5 13.5
Coker 6118	1.14 1.12 1.08 1.09 1.12 1.18 1.07 1.11 1.09 1.07 1.05 1.08 1.09	.51 .51 .48 .49 .48 .54 .48 .52 .50 .52	75.1 71.2 74.4 75.2 74.4 75.0 73.8 73.8 75.1 74.3 73.0 72.4 73.6 74.2	8.9 8.7 8.6 8.5 9.0 8.7 8.7 8.4 8.3 9.4 9.0 9.1 8.8	12.7 11.6 14.1 11.7 12.7 13.1 11.8 11.6 11.8 13.2 11.3 13.5 13.3

Table 60.--High-quality test: Yield, boll, and spinning data for Belle Mina, Ala.

ariety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
0 4548	961 a	6.36	41.5	11.1	4.45
oker 6118	913 ab	5.90	39.4	10.9	5.10
Nair 3150	912 ab	5.45	39.4	10.6	4.45
Nair 3151	878 abc	6.81	35.1	12.0	4.45
toneville 213	866 abc	6.36	39.7	10.7	5.05
o. 63-277-1B	856 abc	6.36	39.4	10.4	4.20
oker 4601	851 abc	6.36	37.6	10.9	4.30
coneville 1395	838 bc	5.90	41.9	11.2	4.90
oker 310	820 bcd	6.36	39.4	11.2	4.75
coneville 1434	814 bcd	6.36	37.3	11.6	4.75
) 4585	811 bćd	6.36	40.5	11.4	4.65
eltapine 264	805 bcd	6.36	34.2	12.2	4.15
Nair 3034	761 cd	7.26	40.8	10.8	4.50
o. 63-277J	716 d	6.81	38.9	11.8	4.10
695	469 e	5.90	38.4	10.0	4.70
			40 (	10.7	4 70
cala SJ-5	389 e	6.36	40.6	10.3	4.30
cala SJ-5	Span length (		Colori	imeter	Yarn
cala SJ-5					
	Span length (2.5%	inches) 50%	$\frac{Colori}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
) 4548	Span length (2.5%	inches) 50%	$R_d$	imeter  Hunter's b value	Yarn tenacity (cN/tex)
) 4548 Oker 6118	Span length (2.5%  1.18 1.14	inches) 50%  0.57 .53	Color: R _d 75.7 74.5	Hunter's b value  8.2 9.1	Yarn tenacity (cN/tex)  13.2 11.3
) 4548 Oker 6118 CNair 3150	Span length (2.5%  1.18 1.14 1.13	inches) 50%  0.57 .53 .52	75.7 74.5 74.8	imeter  Hunter's b value  8.2 9.1 8.0	Yarn tenacity (cN/tex) 13.2 11.3 10.6
0 4548 oker 6118 cNair 3150 cNair 3151	Span length (2.5%  1.18 1.14 1.13 1.18	0.57 .53 .52 .57	75.7 74.5 74.8 74.9	Hunter's b value  8.2 9.1 8.0 7.7	Yarn tenacity (cN/tex) 13.2 11.3 10.6 11.0
0 4548 0ker 6118 2Nair 3150 2Nair 3151	Span length (2.5%  1.18 1.14 1.13 1.18 1.11	0.57 .53 .52 .57	75.7 74.5 74.8 74.9 75.3	######################################	Yarn tenacity (cN/tex) 13.2 11.3 10.6 11.0
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18	0.57 .53 .52 .57 .52	75.7 74.5 74.8 74.9 75.3 73.7	######################################	Yarn tenacity (cN/tex) 13.2 11.3 10.6 11.0 11.4 12.5
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.11	0.57 .53 .52 .57 .52 .56	75.7 74.5 74.8 74.9 75.3 73.7 76.3	######################################	Yarn tenacity (cN/tex) 13.2 11.3 10.6 11.0 11.4 12.5 12.6
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.11	0.57 .53 .52 .57 .52 .56 .53	75.7 74.5 74.8 74.9 75.3 73.7 76.3 75.3	######################################	Yarn tenacity (cN/tex) 13.2 11.3 10.6 11.0 11.4 12.5
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.11	0.57 .53 .52 .57 .52 .56 .53 .54	75.7 74.5 74.8 74.9 75.3 73.7 76.3	######################################	Yarn tenacity (cN/tex) 13.2 11.3 10.6 11.0 11.4 12.5 12.6
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.11 1.18 1.07	inches) 50%  0.57 .53 .52 .57 .52 .56 .53 .54 .55	75.7 74.5 74.8 74.9 75.3 73.7 76.3 75.3 74.6 75.1	######################################	Yarn tenacity (cN/tex)  13.2 11.3 10.6 11.0 11.4 12.5 12.6 13.1 10.6 13.6
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.11 1.18 1.19 1.11 1.18 1.07 1.12	inches) 50%  0.57 .53 .52 .57 .52 .56 .53 .54 .55 .54	75.7 74.5 74.8 74.9 75.3 73.7 76.3 75.3 74.6 75.1 75.3	#unter's b value  8.2 9.1 8.0 7.7 8.9 8.1 8.3 8.6 8.7	Yarn tenacity (cN/tex)  13.2 11.3 10.6 11.0 11.4 12.5 12.6 13.1 10.6
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.11 1.18 1.07	inches) 50%  0.57 .53 .52 .57 .52 .56 .53 .54 .55	75.7 74.5 74.8 74.9 75.3 73.7 76.3 75.3 74.6 75.1	######################################	Yarn tenacity (cN/tex)  13.2 11.3 10.6 11.0 11.4 12.5 12.6 13.1 10.6 13.6
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.11 1.18 1.19 1.11 1.18 1.07 1.12	inches) 50%  0.57 .53 .52 .57 .52 .56 .53 .54 .55 .54	75.7 74.5 74.8 74.9 75.3 73.7 76.3 75.3 74.6 75.1 75.3	######################################	Yarn tenacity (cN/tex)  13.2 11.3 10.6 11.0 11.4 12.5 12.6 13.1 10.6 13.6 12.2
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.11 1.18 1.19 1.11 1.18 1.07 1.12 1.20	inches) 50%  0.57 .53 .52 .57 .52 .56 .53 .54 .55 .54 .55	75.7 74.5 74.8 74.9 75.3 73.7 76.3 75.3 74.6 75.1 75.3 75.2	### Hunter's b value    8.2	Yarn tenacity (cN/tex)  13.2 11.3 10.6 11.0 11.4 12.5 12.6 13.1 10.6 13.6 12.2 12.1
0 4548	Span length (2.5%  1.18 1.14 1.13 1.18 1.11 1.18 1.19 1.11 1.18 1.07 1.12 1.20 1.11	inches) 50%  0.57 .53 .52 .57 .52 .56 .53 .54 .55 .54 .55 .54	75.7 74.5 74.8 74.9 75.3 73.7 76.3 75.3 75.3 75.3	######################################	Yarn tenacity (cN/tex)  13.2 11.3 10.6 11.0 11.4 12.5 12.6 13.1 10.6 13.6 12.2 12.1 10.8

Table 61.--High-quality test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3150	954 a	5.54	37.9	11.8	4.95
Mo. 63-277-1B	951 a	5.26	38.2	11.7	5.00
McNair 3151	946 ab	5.82	35.0	11.9	4.85
Coker 4601	935 ab	6.35	36.8	13.0	4.60
PD 4548	863 abc	5.22	38.8	12.7	4.85
Coker 6118	854 abc	5.44	36.7	12.3	5.30
Mo. 63-277J	825 abc	6.08	36.9	12.6	4.50
PD 695	789 abc	5.62	36.8	10.8	4.75
Stoneville 1395	771 abc	5.62	38.1	12.0	5.00
Deltapine 264	753 bc	5.71	31.9	13.1	4.50
Stoneville 213	751 bc	4.97	35.6	11.7	5.05
Coker 310	731 c	5.62	36.0	12.0	4.60
Stoneville 1434	729 c	5.30	34.6	12.2	4.55
McNair 3034	720 c	6.08	38.8	11.0	4.35
PD 4585	687 c	6.28	39.2	12.6	5.10
Acala SJ-5	359 d	6.47	36.6	12.5	4.35
	Span length (inches)		Colorimeter		Yarn
	ODGII ICIIECII I	THCHCS,		IMCCCI	1 (4.1.11
	2.5%	50%	$\frac{R_{J}}{R_{J}}$	Hunter's	tenacity
			$\frac{R_d}{R_d}$		
MaNaim 7150	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
	1.17	0.53	74.6	Hunter's b value	tenacity (cN/tex)
Mo. 63-277-1B	1.17	0.53	74.6 74.7	Hunter's b value  7.5 7.7	tenacity (cN/tex) 11.5 12.4
Mo. 63-277-1B McNair 3151	1.17 1.18 1.17	0.53 .56 .55	74.6 74.7 73.7	Hunter's b value  7.5 7.7 6.9	tenacity (cN/tex) 11.5 12.4 11.2
Mo. 63-277-1B McNair 3151 Coker 4601	1.17 1.18 1.17 1.22	50% 0.53 .56 .55 .53	74.6 74.7 73.7 75.2	Hunter's b value  7.5 7.7 6.9 7.3	tenacity (cN/tex) 11.5 12.4 11.2 13.4
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548	1.17 1.18 1.17 1.22 1.22	50%  0.53 .56 .55 .53 .57	74.6 74.7 73.7 75.2 73.9	Hunter's b value  7.5 7.7 6.9 7.3 7.6	tenacity (cN/tex) 11.5 12.4 11.2 13.4 14.1
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118	1.17 1.18 1.17 1.22 1.22 1.22	50%  0.53 .56 .55 .53 .57 .56	74.6 74.7 73.7 75.2 73.9 72.1	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4	tenacity (cN/tex) 11.5 12.4 11.2 13.4 14.1 10.8
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118  Mo. 63-277J	1.17 1.18 1.17 1.22 1.22 1.22 1.17	0.53 .56 .55 .53 .57 .56	74.6 74.7 73.7 75.2 73.9 72.1 74.4	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8	tenacity (cN/tex) 11.5 12.4 11.2 13.4 14.1 10.8 13.0
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118  Mo. 63-277J  PD 695	1.17 1.18 1.17 1.22 1.22 1.22 1.17 1.17	50%  0.53 .56 .55 .53 .57 .56 .54 .54	74.6 74.7 73.7 75.2 73.9 72.1 74.4 74.8	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8 7.8	tenacity (cN/tex)  11.5 12.4 11.2 13.4 14.1 10.8 13.0 12.7
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118  Mo. 63-277J  PD 695  Stoneville 1395	1.17 1.18 1.17 1.22 1.22 1.22 1.17 1.17	50%  0.53 .56 .55 .53 .57 .56 .54 .54 .58	74.6 74.7 73.7 75.2 73.9 72.1 74.4 74.8 73.6	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8 7.8 6.9	tenacity (cN/tex)  11.5 12.4 11.2 13.4 14.1 10.8 13.0 12.7 13.8
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118  Mo. 63-277J  PD 695  Stoneville 1395  Deltapine 264	1.17 1.18 1.17 1.22 1.22 1.22 1.17 1.17 1.21	50%  0.53 .56 .55 .53 .57 .56 .54 .54 .58 .55	74.6 74.7 73.7 75.2 73.9 72.1 74.4 74.8 73.6 75.9	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8 7.8 6.9 7.1	tenacity (cN/tex)  11.5 12.4 11.2 13.4 14.1 10.8 13.0 12.7 13.8 13.8
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118  Mo. 63-277J  PD 695  Stoneville 1395  Deltapine 264  Stoneville 213	1.17 1.18 1.17 1.22 1.22 1.22 1.17 1.17 1.17 1.21 1.26 1.20	50%  0.53 .56 .55 .53 .57 .56 .54 .54 .58 .55 .55	74.6 74.7 73.7 75.2 73.9 72.1 74.4 74.8 73.6 75.9 75.3	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8 7.8 6.9 7.1 7.5	tenacity (cN/tex)  11.5 12.4 11.2 13.4 14.1 10.8 13.0 12.7 13.8 13.8 12.0
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118  Mo. 63-277J  PD 695  Stoneville 1395  Deltapine 264  Stoneville 213  Coker 310	1.17 1.18 1.17 1.22 1.22 1.22 1.17 1.17 1.21 1.26 1.20 1.26	50%  0.53 .56 .55 .53 .57 .56 .54 .54 .58 .55 .58	74.6 74.7 73.7 75.2 73.9 72.1 74.4 74.8 73.6 75.9 75.3 72.5	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8 7.8 6.9 7.1 7.5 7.6	tenacity (cN/tex)  11.5 12.4 11.2 13.4 14.1 10.8 13.0 12.7 13.8 13.8 12.0 13.5
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118  Mo. 63-277J  PD 695  Stoneville 1395  Deltapine 264  Stoneville 213  Coker 310  Stoneville 1434	1.17 1.18 1.17 1.22 1.22 1.22 1.17 1.17 1.17 1.21 1.26 1.20 1.26 1.17	50%  0.53 .56 .55 .53 .57 .56 .54 .54 .58 .55 .56 .58	74.6 74.7 73.7 75.2 73.9 72.1 74.4 74.8 73.6 75.9 75.3 72.5 73.2	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8 7.8 6.9 7.1 7.5 7.6 7.3	tenacity (cN/tex)  11.5 12.4 11.2 13.4 14.1 10.8 13.0 12.7 13.8 13.8 12.0 13.5 13.9
Mo. 63-277-1B  McNair 3151  Coker 4601  PD 4548  Coker 6118  Mo. 63-277J  PD 695  Stoneville 1395  Deltapine 264  Stoneville 213  Coker 310  Stoneville 1434  McNair 3034	1.17 1.18 1.17 1.22 1.22 1.22 1.17 1.17 1.17 1.21 1.26 1.20 1.26 1.17	50%  0.53 .56 .55 .53 .57 .56 .54 .58 .55 .56 .58 .57	74.6 74.7 73.7 75.2 73.9 72.1 74.4 74.8 73.6 75.9 75.3 72.5 73.2 77.4	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8 7.8 6.9 7.1 7.5 7.6 7.7	tenacity (cN/tex)  11.5 12.4 11.2 13.4 14.1 10.8 13.0 12.7 13.8 13.8 12.0 13.5 13.9 12.8
Coker 4601  PD 4548  Coker 6118  Mo. 63-277J  PD 695  Stoneville 1395  Deltapine 264  Stoneville 213  Coker 310	1.17 1.18 1.17 1.22 1.22 1.22 1.17 1.17 1.17 1.21 1.26 1.20 1.26 1.17	50%  0.53 .56 .55 .53 .57 .56 .54 .54 .58 .55 .56 .58	74.6 74.7 73.7 75.2 73.9 72.1 74.4 74.8 73.6 75.9 75.3 72.5 73.2	Hunter's b value  7.5 7.7 6.9 7.3 7.6 7.4 7.8 7.8 6.9 7.1 7.5 7.6 7.3	tenacity (cN/tex)  11.5 12.4 11.2 13.4 14.1 10.8 13.0 12.7 13.8 13.8 12.0 13.5 13.9

Table 62.--High-quality test: Yield, boll, and spinning data for Rohwer, Ark.

riety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
oneville 213	919 a	5.05	38.9	10.8	5.50
Nair 3151	913 a	5.71	35.7	13.1	5.25
oneville 1434	899 a	5.05	37.0	12.5	4.80
Nair 3150	875 ab	5.15	36.5	12.8	4.90
4585	838 abc	5.17	39.2	13.2	5.10
tapine 264	833 abc	4.71	34.4	12.5	4.85
er 310	814 abcd	4.88	38.7	11.6	4.90
r 6118	807 abcd	4.93	37.7	13.2	5.35
eville 1395	795 abcd	5.45	38.1	12.3	5.05
r 3034	790 abcd	5.56	38.6	12.2	4.90
3-277J	734 bcde	5.45	34.6	13.1	4.60
r 4601	713 cde	5.33	37.7	13.6	4.70
548	683 de	5.37	37.5	13.2	5.05
63-277-1B	676 de	5.16	36.8	12.8	4.65
a SJ-5	671 de	5.36	39.0	15.0	4.70
) 695	605 e	5.50	37.5	13.1	5.10
	Span length (	(inches)	Color	rimeter	Yarn
	Span length (	(inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
neville 213	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
		·		Hunter's	tenacity
3151	1.10	50% 0.52 .54	69.9 71.1	Hunter's b value	tenacity (cN/tex)
3151 ville 1434	1.10 1.14	0.52	R _d 69.9	Hunter's b value  9.2 8.5	tenacity (cN/tex) 9.6 11.1
3151 ville 1434 3150	1.10 1.14 1.16	0.52 .54 .58	69.9 71.1 72.8	Hunter's b value  9.2 8.5 8.1	tenacity (cN/tex) 9.6 11.1 14.9
r 3151 ville 1434 r 3150	1.10 1.14 1.16 1.11 1.18	50% 0.52 .54 .58 .54	69.9 71.1 72.8 72.2	Hunter's b value  9.2 8.5 8.1 7.9	9.6 11.1 14.9 11.4
r 3151 ville 1434 r 3150 85 pine 264	1.10 1.14 1.16 1.11 1.18	50% 0.52 .54 .58 .54 .57	69.9 71.1 72.8 72.2 71.9	Hunter's b value  9.2 8.5 8.1 7.9 8.6	9.6 11.1 14.9 11.4 12.6
eville 213 ir 3151 eville 1434 ir 3150 585 apine 264 r 310	1.10 1.14 1.16 1.11 1.18 1.16	50%  0.52 .54 .58 .54 .57 .54	69.9 71.1 72.8 72.2 71.9 72.6	Hunter's b value  9.2 8.5 8.1 7.9 8.6 8.2	9.6 11.1 14.9 11.4 12.6 13.0
ir 3151 eville 1434 ir 3150 585 apine 264 r 310 r 6118	1.10 1.14 1.16 1.11 1.18 1.16 1.19	50%  0.52 .54 .58 .54 .57 .54 .55	69.9 71.1 72.8 72.2 71.9 72.6 71.0	Hunter's b value  9.2 8.5 8.1 7.9 8.6 8.2 8.7	9.6 11.1 14.9 11.4 12.6 13.0 12.7
r 3151	1.10 1.14 1.16 1.11 1.18 1.16 1.19	50%  0.52 .54 .58 .54 .57 .54 .55 .59	69.9 71.1 72.8 72.2 71.9 72.6 71.0 70.9	Hunter's b value  9.2 8.5 8.1 7.9 8.6 8.2 8.7 8.8	9.6 11.1 14.9 11.4 12.6 13.0 12.7 12.5
r 3151	1.10 1.14 1.16 1.11 1.18 1.16 1.19 1.19	50%  0.52 .54 .58 .54 .57 .54 .55 .59 .59	R _d 69.9 71.1 72.8 72.2 71.9 72.6 71.0 70.9 72.0	Hunter's b value  9.2 8.5 8.1 7.9 8.6 8.2 8.7 8.8 8.3	9.6 11.1 14.9 11.4 12.6 13.0 12.7 12.5 14.2
r 3151	1.10 1.14 1.16 1.11 1.18 1.16 1.19 1.19 1.20 1.15	50%  0.52 .54 .58 .54 .57 .54 .55 .59 .59	R _d 69.9 71.1 72.8 72.2 71.9 72.6 71.0 70.9 72.0 72.6	Hunter's b value  9.2 8.5 8.1 7.9 8.6 8.2 8.7 8.8 8.3 9.0	9.6 11.1 14.9 11.4 12.6 13.0 12.7 12.5 14.2
ir 3151 eville 1434 ir 3150 585 apine 264 r 310 r 6118 eville 1395 ir 3034 63-277J r 4601	1.10 1.14 1.16 1.11 1.18 1.16 1.19 1.19 1.20 1.15 1.18	50%  0.52 .54 .58 .54 .57 .54 .55 .59 .59 .59	Rd 69.9 71.1 72.8 72.2 71.9 72.6 71.0 70.9 72.0 72.6 71.7	Hunter's b value  9.2 8.5 8.1 7.9 8.6 8.2 8.7 8.8 8.3 9.0 9.7	9.6 11.1 14.9 11.4 12.6 13.0 12.7 12.5 14.2 11.5
r 3151	1.10 1.14 1.16 1.11 1.18 1.16 1.19 1.20 1.15 1.18	50%  0.52 .54 .58 .54 .57 .54 .55 .59 .59 .59 .55	R _d 69.9 71.1 72.8 72.2 71.9 72.6 71.0 70.9 72.0 72.6 71.7 71.0	Hunter's b value  9.2 8.5 8.1 7.9 8.6 8.2 8.7 8.8 8.3 9.0 9.7 8.6	9.6 11.1 14.9 11.4 12.6 13.0 12.7 12.5 14.2 11.5 12.3
ir 3151 eville 1434 ir 3150 585 apine 264 r 310	1.10 1.14 1.16 1.11 1.18 1.16 1.19 1.19 1.20 1.15 1.18 1.19 1.23 1.19	50%  0.52 .54 .58 .54 .57 .54 .55 .59 .59 .59 .55 .57	R _d 69.9 71.1 72.8 72.2 71.9 72.6 71.0 70.9 72.0 72.6 71.7	Hunter's b value  9.2 8.5 8.1 7.9 8.6 8.2 8.7 8.8 8.3 9.0 9.7 8.6 8.7	9.6 11.1 14.9 11.4 12.6 13.0 12.7 12.5 14.2 11.5 12.3 11.0

Table 63.--High-quality test: Yield, boll, and spinning data for Tifton, Ga.

riety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
695	527 a	5.04	35.9		4.30
4548	477 ab	4.82	40.7		4.80
Nair 3151	419 bc	5.42	34.9		5.10
Nair 3150	398 bcd	5.16	36.9		4.75
ker 310	386 bcde	5.06	36.8		4.40
1tapine 264	383 bcde	5.65	31.7		4.15
4585	372 cde	5.19	36.9		4.60
ker 4601	366 cde	4.93	37.3		4.35
Nair 3034	350 cdef	5.43	39.0		4.75
. 63-277-1B	317 cdefg	5.62	37.0		4.45
oneville 213	298 defg	5.38	36.3		5.10
oneville 1395	285 efg	4.61	38.4		5.50
oneville 1434	281 efg	5.27	33.8		4.50
ker 6118	257 fg	5.13	35.6		4.95
. 63-277J	226 g	5.74	36.2		4.55
	~				
a1a SJ-5	Span length (		35.9 Color	rimeter	Yarn
a1a SJ-5				rimeter Hunter's b value	
	Span length (	(inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
695	Span length ( 2.5% 1.12	(inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
695	Span length ( 2.5% 1.12 1.12	(inches) 50% 0.48 .51	75.8 76.0	Hunter's b value  7.5 9.1	Yarn tenacity (cN/tex)  12.9 12.5
695 4548 Nair 3151	Span length (2.5%  1.12 1.12 1.10	(inches) 50% 0.48 .51 .51	75.8 76.0 73.4	Hunter's b value  7.5 9.1 8.3	Yarn tenacity (cN/tex) 12.9 12.5 13.7
695 4548 Nair 3151 Nair 3150	Span length (2.5%  1.12 1.12 1.10 1.12	0.48 .51 .51	75.8 76.0 73.4 75.7	Hunter's b value  7.5 9.1 8.3 8.2	Yarn tenacity (cN/tex) 12.9 12.5 13.7 12.2
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13	0.48 .51 .51 .51	75.8 76.0 73.4 75.7 76.3	Hunter's b value  7.5 9.1 8.3 8.2 8.6	Yarn tenacity (cN/tex) 12.9 12.5 13.7 12.2 13.5
695 4548 Nair 3151 Nair 3150	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20	0.48 .51 .51 .51 .51	75.8 76.0 73.4 75.7 76.3 76.4	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2	Yarn tenacity (cN/tex) 12.9 12.5 13.7 12.2 13.5 12.8
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20 1.14	0.48 .51 .51 .51 .51 .52	75.8 76.0 73.4 75.7 76.3 76.4 75.7	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8	Yarn tenacity (cN/tex)  12.9 12.5 13.7 12.2 13.5 12.8 13.3
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20	0.48 .51 .51 .51 .51	75.8 76.0 73.4 75.7 76.3 76.4 75.7 73.9	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8 8.4	Yarn tenacity (cN/tex)  12.9 12.5 13.7 12.2 13.5 12.8 13.3 13.6
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20 1.14	0.48 .51 .51 .51 .52 .54 .52	75.8 76.0 73.4 75.7 76.3 76.4 75.7 73.9 76.1	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8 8.4 8.9	Yarn tenacity (cN/tex) 12.9 12.5 13.7 12.2 13.5 12.8 13.3 13.6 11.6
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20 1.14 1.15	0.48 .51 .51 .51 .51 .52	75.8 76.0 73.4 75.7 76.3 76.4 75.7 73.9 76.1 75.5	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8 8.4 8.9 8.6	Yarn tenacity (cN/tex)  12.9 12.5 13.7 12.2 13.5 12.8 13.3 13.6 11.6 13.8
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20 1.14 1.15 1.08	0.48 .51 .51 .51 .52 .54 .52	75.8 76.0 73.4 75.7 76.3 76.4 75.7 73.9 76.1 75.5 73.8	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8 8.4 8.9 8.6 8.3	Yarn tenacity (cN/tex)  12.9 12.5 13.7 12.2 13.5 12.8 13.3 13.6 11.6 13.8 12.0
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20 1.14 1.15 1.08 1.15	0.48 .51 .51 .51 .52 .54 .52	75.8 76.0 73.4 75.7 76.3 76.4 75.7 73.9 76.1 75.5	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8 8.4 8.9 8.6 8.3 8.7	Yarn tenacity (cN/tex)  12.9 12.5 13.7 12.2 13.5 12.8 13.3 13.6 11.6 13.8 12.0 15.2
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20 1.14 1.15 1.08 1.15 1.12	0.48 .51 .51 .51 .52 .54 .52 .51 .56	75.8 76.0 73.4 75.7 76.3 76.4 75.7 73.9 76.1 75.5 73.8	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8 8.4 8.9 8.6 8.3 8.7 8.2	Yarn tenacity (cN/tex)  12.9 12.5 13.7 12.2 13.5 12.8 13.3 13.6 11.6 13.8 12.0 15.2 14.1
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20 1.14 1.15 1.08 1.15 1.08	0.48 .51 .51 .51 .52 .54 .52 .54 .52	Color R _d 75.8  76.0  73.4  75.7  76.3  76.4  75.7  73.9  76.1  75.5  73.8  74.5	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8 8.4 8.9 8.6 8.3 8.7	Yarn tenacity (cN/tex)  12.9 12.5 13.7 12.2 13.5 12.8 13.3 13.6 11.6 13.8 12.0 15.2 14.1 13.5
695	Span length (2.5%  1.12 1.12 1.10 1.12 1.13 1.20 1.14 1.15 1.08 1.15 1.08 1.15 1.07 1.07	0.48 .51 .51 .51 .52 .54 .52 .51 .56 .53 .49	75.8 76.0 73.4 75.7 76.3 76.4 75.7 73.9 76.1 75.5 73.8 74.5 74.7	Hunter's b value  7.5 9.1 8.3 8.2 8.6 8.2 8.8 8.4 8.9 8.6 8.3 8.7 8.2	Yarn tenacity (cN/tex)  12.9 12.5 13.7 12.2 13.5 12.8 13.3 13.6 11.6 13.8 12.0 15.2 14.1

#### PIMA REGIONAL COTTON VARIETY TEST

Table 64.--Pima test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1038 a	3.55 b	40.8 a	11.9 ef	4.67 a
P-34	1038 a	3.26 d	39.3 b	12.7 b	4.68 a
	961 ab	3.45 c	35.0 f	13.5 a	4.61 a
E-11	941 ab	3.46 c	37.4 e	13.5 a 11.8 ef	4.69 a
P-37			38.1 d	12.2 d	4.45 b
Pima S-5	918 ab	3.66 a			
E-12	905 ab	3.40 c	34.7 g	13.5 a	4.44 b ·
P-42	904 ab	3.42 c	38.6 c	11.8 f	4.41 b
E-9	900 b	3.59 ab	37.9 d	12.0 e	4.51 b
E-10	862 b	3.20 d	34.3 h	12.4 c	4.42 b
P-41	843 b	3.55 b	37.6 e	12.7 b	4.14 c
	Span length (	inches)	Color	imeter	Yarn
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
P-39	1.44 cd	0.72 bcd	65.2 cde	10.8 ab	17.3 e
	1.44 cd 1.42 de				17.5
		77 aha	67 0 20	11 1 2	10 7 0
P-34		.73 abc	63.9 de	11.1 a	18.3 a
E-11	1.41 e	.71 cd	63.8 e	10.6 abc	17.7 cd
E-11	1.41 e 1.42 de	.71 cd .71 d	63.8 e 64.1 de	10.6 abc 10.7 ab	17.7 cd 18.3 a
E-11	1.41 e 1.42 de 1.43 de	.71 cd .71 d .71 cd	63.8 e 64.1 de 67.1 b	10.6 abc 10.7 ab 10.4 bc	17.7 cd 18.3 a 17.5 de
E-11	1.41 e 1.42 de 1.43 de 1.45 bc	.71 cd .71 d .71 cd .72 bcd	63.8 e 64.1 de 67.1 b 66.6 bc	10.6 abc 10.7 ab 10.4 bc 10.0 cd	17.7 cd 18.3 a 17.5 de 18.0 b
E-11	1.41 e 1.42 de 1.43 de 1.45 bc 1.46 b	.71 cd .71 d .71 cd .72 bcd .73 ab	63.8 e 64.1 de 67.1 b 66.6 bc 66.5 bc	10.6 abc 10.7 ab 10.4 bc 10.0 cd 10.4 bc	17.7 cd 18.3 a 17.5 de 18.0 b 17.9 bc
E-11	1.41 e 1.42 de 1.43 de 1.45 bc 1.46 b 1.42 de	.71 cd .71 d .71 cd .72 bcd .73 ab .71 d	63.8 e 64.1 de 67.1 b 66.6 bc 66.5 bc 65.6 bcd	10.6 abc 10.7 ab 10.4 bc 10.0 cd 10.4 bc 10.4 bc	17.7 cd 18.3 a 17.5 de 18.0 b 17.9 bc
E-11	1.41 e 1.42 de 1.43 de 1.45 bc 1.46 b	.71 cd .71 d .71 cd .72 bcd .73 ab	63.8 e 64.1 de 67.1 b 66.6 bc 66.5 bc	10.6 abc 10.7 ab 10.4 bc 10.0 cd 10.4 bc	17.7 cd 18.3 a 17.5 de 18.0 b 17.9 bc

Table 65.--Pima test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Safford (Layton), AZ Marana (Clark), AZ Salome, AZ Wenden, AZ Safford (Sta.), AZ Fabens, TX Phoenix, AZ Safford (Curtis), AZ El Paso, TX Coolidge, AZ	1294 a 1062 b 1060 b 1055 b 974 c 967 c 915 d 875 e 562 f 534 f	3.68 ab 3.47 d 3.14 f 3.38 e 3.65 b 3.73 a 3.32 e 3.56 c 3.11 f 3.50 c	38.3 ab 37.2 d 38.3 ab 36.9 e 38.5 a 38.5 a 34.5 g 37.8 c 38.1 bc 35.6 f	12.3 e 12.5 d 11.2 f 12.6 d 12.4 d 12.8 c 13.0 b 12.2 e 12.3 e 13.2 a	4.66 a 4.49 bc 4.37 d 4.42 cd 4.53 bc 4.44 cd 4.68 a 4.50 bc 4.59 ab 4.45 cd
	Span length (i	nches) 50%	$\frac{Color}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Safford (Layton), AZ Marana (Clark), AZ Salome, AZ Wenden, AZ Safford (Sta.), AZ Fabens, TX Phoenix, AZ Safford (Curtis), AZ El Paso, TX Coolidge, AZ	1.46 a 1.45 b 1.38 b 1.44 b 1.42 b 1.46 b 1.45 b 1.45 b 1.45 b 1.46 ab 1.45 b	0.72 abc .72 abc .69 d .74 a .72 abc .73 ab .70 cd .71 bc .74 a .74 a	66.4 bc 67.3 bc 70.5 a 67.7 b 67.0 bc 62.7 e 64.7 d 66.8 bc 65.6 cd 64.6 d	10.8 b 10.5 b 10.9 b 10.6 b 10.9 b 9.4 c 12.0 a 10.8 b 10.4 b 9.3 c	18.0 b 17.9 bc 18.2 b 18.7 a 18.1 b 17.4 d 17.3 d 17.9 bc 17.7 c 18.1 b

Table 66.--Pima test: Combined yield, boll, and spinning data for Phoenix, Coolidge, Marana, Salome, and Wenden, Ariz., by cotton variety

ety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
	1073 a	3.49	40.0	12.0	4.68
	1018 ab	3.18	38.5	12.6	4.63
	1003 abc	3.34	37.7	11.8	4.42
S-5	976 abcd	3.63	37.3	12.3	4.48
	945 abcd	3.36	36.5	11.9	4.65
	918 abcde	3.49	36.3	12.9	4.14
	861 bcde	3.29	34.0	13.6	4.59
	849 cde	3.49	37.3	12.0	4.52
	834 de	3.25	33.8	13.6	4.36
	779 e	3.10	33.6	12.3	4.38
	Span length (	inches)	Color	rimeter	Yarn
	Span length (	(inches) 50%	$\frac{\text{Color}}{R_{d}}$	Hunter's b value	Yarn tenacity (cN/tex)
			$\frac{\text{Color}}{R_d}$	Hunter's	tenacity
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
	1.44	0.72	66.0	Hunter's b value	tenacity (cN/tex)
	1.44 1.43	0.72 .73	66.0 65.2	Hunter's b value  10.8 11.1	tenacity (cN/tex) 17.6 18.4
	1.44 1.43 1.44	0.72 .73 .73	66.0 65.2 67.7	Hunter's b value  10.8 11.1 10.3	tenacity (cN/tex) 17.6 18.4 18.1
	1.44 1.43 1.44 1.43	0.72 .73 .73	66.0 65.2 67.7 68.0	Hunter's b value  10.8 11.1 10.3 10.5	17.6 18.4 18.1 17.7
S-5	1.44 1.43 1.44 1.43 1.42	0.72 .73 .73 .70	66.0 65.2 67.7 68.0 65.3	Hunter's b value  10.8 11.1 10.3 10.5 10.8	17.6 18.4 18.1 17.7 18.5
S-5	1.44 1.43 1.44 1.43 1.42 1.50	0.72 .73 .73 .70 .71	66.0 65.2 67.7 68.0 65.3 67.7	Hunter's b value  10.8 11.1 10.3 10.5 10.8 10.5	17.6 18.4 18.1 17.7 18.5 18.5
S-5	1.44 1.43 1.44 1.43 1.42 1.50 1.41	0.72 .73 .73 .70 .71 .75	66.0 65.2 67.7 68.0 65.3 67.7 64.6	Hunter's b value  10.8 11.1 10.3 10.5 10.8 10.5 10.7	17.6 18.4 18.1 17.7 18.5 18.5

Table 67.--Pima test: Combined yield, boll, and spinning data for El Paso and Fabens, Tex., and Safford, Ariz. (Station and Curtis and Layton farms), by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
E-11	1061 a	3.62	36.0	13.3	4.64
P-34	1039 a	3.34	40.2	12.8	4.73
P-39	1008 a	3.61	41.6	11.8	4.67
E-12	975 ab	3.56	35.6	13.3	4.51
E-9	958 ab	3.68	38.5	12.0	4.51
E-10	945 ab	3.31	34.9	12.5	4.46
P-37	936 ab	3.56	38.4	11.7	4.73
Pima S-5	860 bc	3.68	38.8	12.1	4.44
P-42	805 c	3.50	39.5	11.8	4.40
P-41	767 c	3.62	38.8	12.6	4.14
	Span length ( 2.5%	50%	$\overline{R}_{d}$	Hunter's b value	tenacity (cN/tex)
E-11	1.41	0.72	63.2	10.5	17.5
P-34	1.41	.73	62.9	11.1	18.1
P-39	1.44	.72	64.5	10.7	17.1
E-12	1.47	.73	65.7	9.5	17.6
E-9	1.42	.71	65.5	10.3	17.7
E-10	1.47	. 73	69.8	8.7	17.7
P-37	1.42	.71	63.1	10.7	18.1
Pima S-5	1.43	.72	66.3	10.4	17.3
P-42	1.47	.74	65.5	10.5	17.7
P-41	1.49	.75	65.4	10.6	18.5

Table 68.--Pima test: Yield, boll, and spinning data for Safford, Ariz. (Layton farm)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1492 a	3.86	41.8	11.8	4.95
P-34	1461 ab	3.56	40.3	12.7	4.85
P-37	1392 abc	3.63	38.2	11.7	4.90
E-9	1343 bc	3.71	39.4.	11.4	4.75
E-11	1304 c	3.65	35.9	13.2	4.60
E-12	1304 C	3 <b>.</b> 03	35.4	13.5	4.55
Pima S-5	1300 c	3.82	39.5	11.9	4.50
P-42	1163 d	3.68	39.3	12.2	4.65
E-10	1111 d	3.47	34.8	12.3	4.50
P-41	1100 d	3.74	38.8	13.0	4.35
	Span length (2.5%	inches) 50%	$\frac{Color}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
P-39 P-34	1.39	0.72 .72	65.5 63.9	10.9	17.5
P-37	1.38	.71	63.5	11.7	18.9
E-9	1.37	.69	67.3	10.8	17.5
E-11	1.39	.72	64.3	11.0	17.7
E-12	1.45	.74	66.0	10.2	18.2
Pima S-5	1.42	. 72	67.4	11.1	17.3
P-42	1.47	.75	67.5	11.0	18.0
E-10	1.45	.73	72.1	9.2	17.9
P-41	1.46	.75	66.7	10.9	18.9

Table 69.--Pima test: Yield, boll, and spinning data for Wenden, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1228 a	3.42	40.4	11.9	4.70
Pima S-5	1196 ab	3.74	38.4	12.2	4.50
P-42	1132 ab	3.35	38.9	11.6	4.35
P-34	1116 ab	3.20	39.0	12.5	4.50
P-41	1082 ab	3.66	36.6	13.1	4.10
E-9	1066 ab	3.59	38.0	12.1	4.55
E-10	1026 abc	3.19	34.2	12.6	4.30
P-37	979 abc	3.35	36.3	12.3	4.50
E-12	940 bc	3.11	33.8	13.7	4.30
E-11	788 c	3.23	33.8	14.0	4.45
	Span length (	inches)	Color	imeter	Yarn
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
P-39	1.44	0.76	$R_d$ 65.4		· · · · · · · · · · · · · · · · · · ·
P-39				b value	(cN/tex)
	1.44	0.76	65.4	<i>b</i> value	(cN/tex) 
Pima S-5	1.44 1.40	0.76 69	65.4 68.3	11.1 10.8	(cN/tex) 18.2 18.5
Pima S-5	1.44 1.40 1.47	0.76 69 75	65.4 68.3 69.6	11.1 10.8 10.6	(cN/tex) 18.2 18.5 18.4
Pima S-5	1.44 1.40 1.47 1.44	0.76 69 75 74	65.4 68.3 69.6 64.6	11.1 10.8 10.6 11.4	(cN/tex)  18.2 18.5 18.4 19.3
Pima S-5	1.44 1.40 1.47 1.44 1.52	0.76 69 75 74 78	65.4 68.3 69.6 64.6 68.2	11.1 10.8 10.6 11.4 11.0	18.2 18.5 18.4 19.3 18.8
Pima S-5	1.44 1.40 1.47 1.44 1.52	0.76 69 75 74 78	65.4 68.3 69.6 64.6 68.2 66.6 73.5 64.9	11.1 10.8 10.6 11.4 11.0 10.7 9.1 11.0	(cN/tex)  18.2 18.5 18.4 19.3 18.8 18.6 18.3 19.1
Pima S-5	1.44 1.40 1.47 1.44 1.52 1.47	0.76 69 75 74 78 73	65.4 68.3 69.6 64.6 68.2 66.6 73.5	11.1 10.8 10.6 11.4 11.0 10.7 9.1 11.0 9.5	(cN/tex)  18.2 18.5 18.4 19.3 18.8 18.6 18.3 19.1 19.5
Pima S-5	1.44 1.40 1.47 1.44 1.52 1.47 1.45	0.76 69 75 74 78 73 73	65.4 68.3 69.6 64.6 68.2 66.6 73.5 64.9	11.1 10.8 10.6 11.4 11.0 10.7 9.1 11.0	(cN/tex)  18.2 18.5 18.4 19.3 18.8 18.6 18.3 19.1

Table 70.--Pima test: Yield, boll, and spinning data for Marana, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1226 a	3.76	40.5	12.1	4.65
E-11	1139 b	3.43	35.1	13.4	4.65
P-34	1136 b	3.24	39.7	12.5	4.60
P-37	1076 bc	3.57	37.3	12.0	4.65
E-12	1075 bc	3.50	34.7	13.6	4.50
P-42	1075 bc	3.39	38.1	11.9	4.40
Pima S-5	1028 cd	3.58	37.7	12.3	4.35
E-9	1024 cd	3.51	38.3	12.1	4.55
E-10	983 d	3.26	34.0	12.7	4.50
P-41	894 e	3.47	36.8	13.0	4.10
	Span length (2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
P-39	1.49	0.74	66.8	10.7	17.3
E-11	1.42	.70	65.5	10.7	17.5
P-34	1.43	.75	65.9	11.4	18.7
P-37	1.48	.75	66.5	10.9	18.3
E-12	1.45	.72	67.5	9.9	17.9
P-42	1.46	. 74	68.0	10.7	18.3
Pima S-5	1.45	.71	67.6	10.9	17.8
E-9	1.41	.67	66.4	10.5	17.6
E-10	1.45	.68	71.2	8.9	17.7
P-41	1.53	. 73	68.1	10.6	18.7

Table 71.--Pima test: Yield, boll, and spinning data for Salome, Ariz.

Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
1174 a	3.42	40.0	11.1	4.40
1129 ab	3.35	42.0	11.2	4.60
1086 ab	2.95	40.2	11.7	4.50
1074 ab	3.27	38.9	10.6	4.40
1061 ab	2.90	35.1	12.0	4.20
1044 ab	2.92	34.8	12.2	4.40
1034 ab	3.01	35.5	11.1	4.30
1006 ab	3.04	39.6	10.6	4.35
996 b	3.38	38.9	11.5	4.05
993 b	3.25	38.5	10.7	4.55
2.5%	50%	$\frac{R}{d}$	Hunter's b value	Yarn tenacity (cN/tex)
1.39	0.69	71.3	11.0	17.5
1.37	.70	69.9	11.4	17.7
1.39	.71	69.0	11.4	18.7
1.37	.67	68.7	11.3	17.7
1.37	. 69	72.4	9.8	19.1
1.32	.68	68.3	11.2	18.5
1.43	. 69	76.3	9.4	18.1
1.36	.67	71.5	11.0	18.1
		= 0 0	7.7 0	100
1.43	. 73	70.2	11.0	18.2
	(1b/acre)  1174 a 1129 ab 1086 ab 1074 ab 1061 ab 1044 ab 1006 ab 996 b 993 b  Span length ( 2.5%  1.39 1.37 1.39 1.37 1.37 1.32 1.43	(1b/acre)       (g/boll)         1174 a       3.42         1129 ab       3.35         1086 ab       2.95         1074 ab       3.27         1061 ab       2.90         1044 ab       2.92         1034 ab       3.01         1006 ab       3.38         993 b       3.25         Span length (inches)         2.5%       50%            1.39       0.69         1.37       .67         1.37       .69         1.32       .68         1.43       .69	(1b/acre)     (g/boll)     percent       1174 a     3.42     40.0       1129 ab     3.35     42.0       1086 ab     2.95     40.2       1074 ab     3.27     38.9       1061 ab     2.90     35.1       1044 ab     2.92     34.8       1034 ab     3.01     35.5       1006 ab     3.04     39.6       996 b     3.38     38.9       993 b     3.25     38.5    Span length (inches)  Color  R  d  1.37  .70  .69.9  1.37  .67  .68.7  1.37  .69  .72.4  1.32  .68  .68.3  1.43  .69  .76.3	(1b/acre)     (g/boll)     percent     index       1174 a     3.42     40.0     11.1       1129 ab     3.35     42.0     11.2       1086 ab     2.95     40.2     11.7       1074 ab     3.27     38.9     10.6       1061 ab     2.90     35.1     12.0       1044 ab     2.92     34.8     12.2       1034 ab     3.01     35.5     11.1       1006 ab     3.04     39.6     10.6       996 b     3.38     38.9     11.5       993 b     3.25     38.5     10.7       Span length (inches)       2.5%     50%     Colorimeter       Rd     Hunter's       b value       1.39     0.69     71.3     11.0       1.37     .70     69.9     11.4       1.39     .71     69.0     11.4       1.37     .67     68.7     11.3       1.37     .69     72.4     9.8       1.32     .68     68.3     11.2       1.43     .69     76.3     9.4

Table 72.--Pima test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-42	1165 a	3.28	36.2	12.2	4.60
P-34	1136 ab	3.22	36.9	12.9	4.90
P-39	1105 ab	3.31	38.2	12.3	4.80
P-41	1093 ab	3.35	34.9	13.1	4.35
P-37	1074 b	3.25	35.0	12.5	4.85
Pima S-5	935 c	3.62	34.7	13.2	4.65
E-9	723 d	3.52	34.8	12.5	4.65
E-11	706 d	3.40	31.7	14.5	4.95
E-12	683 d	3.42	31.5	14.5	4.55
E-10	533 e	2.87	31.1	12.6	4.50
G-10		inches)	Color	imeter	Yarn
	Span length (	(inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
2-42	Span length (	<u> </u>		Hunter's	tenacity
9-42	Span length (	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
9-42 9-34	Span length (2.5%	0.73	R _d 64.7	Hunter's b value	tenacity (cN/tex)
9-42 9-34 9-39	Span length (2.5%  1.47 1.42	50% 0.73 .72	64.7 62.9	Hunter's b value	tenacity (cN/tex) 17.6 17.8
9-42 9-34 9-39	Span length (2.5%  1.47 1.42 1.46	0.73 .72 .70	64.7 62.9 64.4	Hunter's b value  10.2 11.1 11.0	tenacity (cN/tex) 17.6 17.8 17.1
2-42 2-34 2-39 2-41	Span length (2.5%  1.47 1.42 1.46 1.52	50% 0.73 .72 .70 .75	64.7 62.9 64.4 66.9	Hunter's b value  10.2 11.1 11.0 10.6	tenacity (cN/tex) 17.6 17.8 17.1 18.4
2-42	Span length (2.5%  1.47 1.42 1.46 1.52 1.44	50% 0.73 .72 .70 .75 .68	64.7 62.9 64.4 66.9 64.1	Hunter's b value  10.2 11.1 11.0 10.6 11.1	tenacity (cN/tex) 17.6 17.8 17.1 18.4 17.7
2-42	Span length (2.5%  1.47 1.42 1.46 1.52 1.44 1.42	0.73 .72 .70 .75 .68	64.7 62.9 64.4 66.9 64.1 66.7	Hunter's b value  10.2 11.1 11.0 10.6 11.1 10.5	tenacity (cN/tex) 17.6 17.8 17.1 18.4 17.7 16.9
	Span length (2.5%)  1.47 1.42 1.46 1.52 1.44 1.42 1.45	50%  0.73 .72 .70 .75 .68 .67 .69	64.7 62.9 64.4 66.9 64.1 66.7 62.7	Hunter's b value  10.2 11.1 11.0 10.6 11.1 10.5 10.9	tenacity (cN/tex) 17.6 17.8 17.1 18.4 17.7 16.9 16.5

Table 73.--Pima test: Yield, boll, and spinning data for Fabens, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	1147 a	3.32	40.8	12.9	4.55
E-11	1075 a	4.00	35.4	14.3	4.62
P-39	1073 a	3.65	41.9	12.2	4.55
E-9	1022 ab	3.95	37.8	13.3	4.47
P-37	997 abc	3.65	39.5	11.4	4.70
E-10	997 abc	3.47	35.5	13.2	4.50
P-41	889 bcd	3.88	39.8	12.4	3.95
Pima S-5	853 cd	4.01	38.4	12.8	4.35
E-12	838 cd	3.64	36.1	13.3	4.47
P-42	828 d	3.80	39.9	11.9	4.22
	Span length (	inches)	Color	imeter	Yarn
	Span length (	inches) 50%	$\frac{\text{Color}}{R_{d}}$	Hunter's b value	Yarn tenacity (cN/tex)
P-34		0.75	$\frac{\text{Color}}{R_d}$	Hunter's b value	tenacity (cN/tex)
P-34 E-11	2.5%	50%	61.6 60.6	Hunter's b value  10.1 9.5	tenacity (cN/tex) 17.6 17.3
	1.44	0.75 .72 .74	61.6 60.6 63.3	Hunter's b value  10.1 9.5 10.0	tenacity (cN/tex) 17.6 17.3 16.8
E-11	1.44	0.75 .72 .74 .73	61.6 60.6 63.3 63.5	Hunter's b value  10.1 9.5 10.0 9.4	tenacity (cN/tex) 17.6 17.3 16.8 17.5
E-11 P-39	1.44 1.44 1.47	0.75 .72 .74	61.6 60.6 63.3 63.5 61.8	Hunter's b value  10.1 9.5 10.0 9.4 9.7	tenacity (cN/tex) 17.6 17.3 16.8 17.5 17.7
E-11	1.44 1.44 1.47 1.44	0.75 .72 .74 .73 .70	61.6 60.6 63.3 63.5 61.8 64.7	Hunter's b value  10.1 9.5 10.0 9.4 9.7 7.8	tenacity (cN/tex) 17.6 17.3 16.8 17.5 17.7
E-11	1.44 1.44 1.47 1.44 1.43	0.75 .72 .74 .73 .70 .74	61.6 60.6 63.3 63.5 61.8 64.7 62.8	Hunter's b value  10.1 9.5 10.0 9.4 9.7 7.8 9.9	tenacity (cN/tex) 17.6 17.3 16.8 17.5 17.7
E-11	1.44 1.44 1.47 1.44 1.43 1.48	0.75 .72 .74 .73 .70 .74 .75	61.6 60.6 63.3 63.5 61.8 64.7 62.8 64.2	Hunter's b value  10.1 9.5 10.0 9.4 9.7 7.8 9.9 9.6	tenacity (cN/tex) 17.6 17.3 16.8 17.5 17.7 17.5 18.3 16.9
E-11	1.44 1.44 1.47 1.44 1.43 1.48 1.51	0.75 .72 .74 .73 .70 .74 .75	61.6 60.6 63.3 63.5 61.8 64.7 62.8 64.2 61.5	Hunter's b value  10.1 9.5 10.0 9.4 9.7 7.8 9.9 9.6 8.5	tenacity (cN/tex) 17.6 17.3 16.8 17.5 17.7 17.5 18.3 16.9 16.8
E-11	1.44 1.44 1.47 1.44 1.43 1.48 1.51 1.44	0.75 .72 .74 .73 .70 .74 .75	61.6 60.6 63.3 63.5 61.8 64.7 62.8 64.2	Hunter's b value  10.1 9.5 10.0 9.4 9.7 7.8 9.9 9.6	tenacity (cN/tex) 17.6 17.3 16.8 17.5 17.7 17.5 18.3 16.9

Table 74.--Pima test: Yield, boll, and spinning data for Safford, Ariz. (Station)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
E-11	1064 a	3.64	36.8	12.9	4.75
P-34	1049 ab	3.49	40.8	12.7	4.85
E-10	1029 ab	3.40	36.1	12.1	4.45
P-39	1023 ab	3.88	41.2	12.2	4.70
E-12	992 abc	3.63	36.1	13.3	4.50
Pima S-5	951 abc	3.81	39.3	12.1	4.45
P-37	925 abc	3.66	38.2	12.2	4.60
P-42	918 bc	3.59	39.9	11.8	4.40
E-9	912 bc	3.74	39.0	11.9	4.40
P-41	876 c	3.72	38.4	13.0	4.20
	Span length ( 2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
E-11	1.39	0.71	65.5	11.1	17.9
P-34	1.40	.73	64.2	11.7	18.8
E-10	1.45	. 71	73.7	9.5	17.7
P-39	1.43	. 75	64.4	11.3	17.8
E-12	1.44	.72	68.7	10.6	17.7
Pima S-5	1.42	.72	67.1	11.2	18.1
P-37	1.44	.73	64.8	11.1	18.2
	1 · TT	• / 3	0110		
	1.44	.74	67.5	11.1	18.1
P-42 E-9					

Table 75.--Pima test: Yield, boll, and spinning data for Safford, Ariz. (Curtis farm)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
E-12	1052 a	3.61	35.2	13.4	4.40
E-11	1032 a	3.61	35.5	13.0	4.55
P-39	997 ab	3.68	41.1	12.0	4.65
E-10	973 ab	3.45	34.8	12.3	4.40
E-9	900 bc	3.64	39.3	11.5	4.55
P-34	896 bc	3.42	39.9	12.9	4.70
P-37	837 cd	3.74	37.6	11.6	4.65
P-42	743 de	3.41	38.9	11.4	4.50
Pima S-5	734 e	3.60	38.4	12.0	4.50
			70 1	10 F	4.10
P-41	581 f  Span length (	3.53 	38.1 ————————————————————————————————————	12.5 	4.10  Yarn
	581 f  Span length (2.5%				
	Span length (	(inches)	Color	rimeter Hunter's	Yarn tenacity
P-41	Span length (	(inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
P-41 E-12	Span length (2.5%	(inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
E-12 E-11	Span length (2.5%  1.47 1.42	(inches) 50% 0.74 .70	Color R _d 69.2 64.4	Hunter's b value  10.1 11.0	Yarn tenacity (cN/tex)
E-12	Span length (2.5%  1.47 1.42 1.43	(inches) 50% 0.74 .70 .68	Color R _d 69.2 64.4 65.8	Hunter's b value  10.1 11.0 11.2	Yarn tenacity (cN/tex)  18.1 17.2 17.4
E-12	Span length (2.5%)  1.47 1.42 1.43 1.47	0.74 .70 .68 .72	Color R _d 69.2 64.4 65.8 71.9	Hunter's b value  10.1 11.0 11.2 9.3	Yarn tenacity (cN/tex) 18.1 17.2 17.4 17.6
E-12	Span length (2.5%  1.47 1.42 1.43 1.47 1.42	0.74 .70 .68 .72 .69	Color R _d 69.2 64.4 65.8 71.9 66.0	10.1 11.0 11.2 9.3 11.1 11.6 11.1	Yarn tenacity (cN/tex) 18.1 17.2 17.4 17.6 18.0 18.3 18.2
E-12	Span length (2.5%  1.47 1.42 1.43 1.47 1.42 1.41	0.74 .70 .68 .72 .69	Color R _d 69.2 64.4 65.8 71.9 66.0 64.5	Hunter's b value  10.1 11.0 11.2 9.3 11.1 11.6 11.1 10.5	Yarn tenacity (cN/tex) 18.1 17.2 17.4 17.6 18.0 18.3 18.2 18.1
E-12	Span length (2.5%)  1.47 1.42 1.43 1.47 1.42 1.44 1.44	0.74 .70 .68 .72 .69 .72	Color R _d 69.2 64.4 65.8 71.9 66.0 64.5 64.6	10.1 11.0 11.2 9.3 11.1 11.6 11.1	Yarn tenacity (cN/tex) 18.1 17.2 17.4 17.6 18.0 18.3 18.2

Table 76.--Pima test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
E-11	830 a	3.20	36.5	13.3	4.70
E-12	691 b	3.15	35.6	13.3	4.70
9-34	641 bc	2.95	39.6	13.0	4.90
E-10	615 bcd	2.76	33.7	12.7	4.45
9	576 cde	3.39	37.3	12.3	4.45
-37	531 def	3.14	38.5	11.8	4.85
-39	505 ef	3.01	42.2	11.1	4.65
ima S-5	463 fg	3.20	38.6	11.9	4.50
-41	391 g	3.25	39.2	12.1	4.30
-42	375 g	3.02	39.7	11.7	4.45
	Span length (2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
-11		- The same of the	$\frac{\text{Color}}{R_d}$	Hunter's	tenacity
	2.5%	50%	$R_d$	Hunter's b value	tenacity (cN/tex)
-12	1.40	0.74	63.8	Hunter's b value	tenacity (cN/tex)
-12 -34	1.40 1.51	50% 0.74 .76	63.8 67.4	Hunter's b value	tenacity (cN/tex) 17.5 18.3
-12 -34 -10	1.40 1.51 1.41	50% 0.74 .76 .71	63.8 67.4 62.0	Hunter's b value  10.8 9.4 11.3	tenacity (cN/tex) 17.5 18.3 17.8
-12	1.40 1.51 1.41 1.50	0.74 .76 .71	63.8 67.4 62.0 71.8	Hunter's b value  10.8 9.4 11.3 8.8	tenacity (cN/tex) 17.5 18.3 17.8 18.0
-12	1.40 1.51 1.41 1.50 1.47	50%  0.74 .76 .71 .75 .71	63.8 67.4 62.0 71.8 66.1	Hunter's b value  10.8 9.4 11.3 8.8 10.3	tenacity (cN/tex) 17.5 18.3 17.8 18.0 18.0
-12	1.40 1.51 1.41 1.50 1.47 1.40	50%  0.74 .76 .71 .75 .71 .70	63.8 67.4 62.0 71.8 66.1 62.3	Hunter's b value  10.8 9.4 11.3 8.8 10.3 10.7	17.5 18.3 17.8 18.0 18.0 18.3
-12 -34	1.40 1.51 1.41 1.50 1.47 1.40 1.45	50%  0.74 .76 .71 .75 .71 .70 .74	63.8 67.4 62.0 71.8 66.1 62.3 64.9	Hunter's b value  10.8 9.4 11.3 8.8 10.3 10.7 11.0	tenacity (cN/tex) 17.5 18.3 17.8 18.0 18.0 18.3 16.7

Table 77.--Pima test: Yield, boll, and spinning data for Coolidge, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-42	675 a	3.68	36.1	12.9	4.40
P-39	648 a	3.63	38.9	12.9	4.40
	628 a	3.50	34.8	14.3	4.50
E-11	615 a	3.31	36.7	13.4	
P-34	605 a	3.38	35.4		4.65
P-37				12.4	4.70
Pima S-5	549 ab	3.81	36.0	12.9	4.50
P-41	526 ab	3.59	34.6	13.9	4.10
E-12	410 bc	3.32	34.0	14.4	4.25
E-9	359 c	3.60	36.6	12.7	4.45
E-10	320 c	3.18	33.3	12.9	4.30
	Span length (i	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b value	Yarn tenacith (cN/tex)
P-42	1.48	0.77	64.9	9.0	18.1
P-39	1.43	.74	63.3	10.0	177
E-11	1.43	.72	61.7	9.9	18.1
P-34	1.46	.74	63.5	10_1	17.9
P-37	1.44	.73	63.7	9.3	19.0
Pima S-5	1.48	. 74	66.3	9.2	17.7
P-41	1.50	.76	65.3	9.3	18.5
E-12	1.44	.72	63.1	8.3	18.3
E-9	1.45	.75	63.7	9.7	18.0
E-10	1.45	.73	70.9	8.3	18.4

## COMBED-YARN TEST Table 78.--Combed-yarn test: Phoenix, Ariz.

		Vari	ety		
Test	Pima S-5	P-34	P-37	P-39	P-41
Classer's designation:					
Grade	8	8	10	10	10
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:			•		•
11.8 tex, combed	16.7	16.7	17.2	15.5	16.9
7.4 tex, combed	14.3	14.3	14.6	13.5	15.0
Yarn appearance index	110	110	110	110	105
Yarn imperfections:					
11.8 tex, combed	2	1	1	1	3
7.4 tex, combed	1	1	1	1	2
Waste, percent:					
Picker and card	15.2	16.2	15.5	15.3	15.9
Comber	13.2	13.0	14.6	13.1	13.2
	P-42	E-9	E-10	E-11	E-12
Classer's designation:					
Grade	10	. 10	10	10	10
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.9	16.7	16.2	16.0	16.7
7.4 tex, combed	14.3	14.3	14.3	13.9	14.3
Yarn appearance index	110	110	110	120	115
Yarn imperfections:					
11.8 tex, combed	2	3	3	2	2
7.4 tex, combed	2	2	2	2	2
Waste, percent:	_		_	_	
Picker and card	16.0	17.7	20.6	20.3	21.5
Comber	13.5	14.8	16.3	15.3	14.5
Compet	13.3	14.0	10.3	13.3	14.5

Table 79.--Combed-yarn test: Safford, Ariz.

	Variety				
Test	Pima S-5	P-34	P-37	P-39	P-41
Classer's designation:					
Grade	7	7	10	8	8
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.7	16.5	16.9	16.0	17.2
7.4 tex, combed	13.1	14.3	15.0	13.9	14.6
Yarn appearance index	115	120	120	120	110
Yarn imperfections:					
11.8 tex, combed	1	1	1	1	2
7.4 tex, combed	1	1	1	1	2
Waste, percent:					
Picker and card	12.2	12.1	13.0	13.2	13.8
Comber	13.0	11.7	14.1	13.1	13.2
		Б. О	P. 10		
	P-42	E-9	E-10	E-11	E-12
Classer's designation:					
Grade	10	7	10	10	8
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.9	16.7	16.5	15.7	16.5
7.4 tex, combed	14.6	14.3	14.6	13.1	13.9
Yarn appearance index	110	110	110	120	115
Yarn imperfections:					
11.8 tex, combed	3	1	1	1	1
7.4 tex, combed	2	1	1	1	2
Waste, percent:					
Picker and card	14.1	13.8	16.4	17.1	18.1
Comber	12.3	14.0	13.4	13.4	13.5

Table 80.--Combed-yarn test: Fabens, Tex.

	Variety					
Test	Pima S-5	P-34	P-37	P-39	P-41	
Classer's designation:						
Grade	8	8	7	6	8	
Staple: 32's inch	46	46	46	46	46	
Yarn tenacity, cN/tex:						
11.8 tex, combed	16.0	15.7	16.4	14.8	16.7	
7.4 tex, combed	13.1	13.5	13.9	12.8	13.9	
Yarn appearance index	110	120	115	115	105	
Yarn imperfections:						
11.8 tex, combed	2	1	1	2	3	
7.4 tex, combed	1	1	1	1	1	
Waste, percent:						
Picker and card	12.0	12.8	13.3	10.3	16.0	
Comber	13.2	11.1	13.3	13.2	12.8	
	P-42	E-9	E-10	E-11	E-12	
Classer's designation:						
Grade	8	8	10	10	9	
Staple: 32's inch	46	48	46	46	46	
Yarn tenacity, cN/tex:						
11.8 tex, combed	16.4	16.0	15.7	15.0	15.7	
7.4 tex, combed	13.9	13.9	13.1	13.1	13.5	
Yarn appearance index	110	115	115	115	110	
Yarn imperfections:						
11.8 tex, combed	2	1	1	2	2	
7.4 tex, combed	2	1	1	1	2	
Waste, percent:						
Picker and card	14.1	12.9	15.7	18.3	17.3	
Comber	13.5	12.3	13.3	12.5	13.1	

Table 81.--Combed-yarn test: El Paso, Tex.

	Variety				
Test	Pima S-5	P-34	P-37	P-39	P-41
Classer's designation:					
Grade	7	7	7	7	7
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.3	15.0	16.2	15.0	16.2
7.4 tex, combed	13.1	12.8	13.9	12.8	13.9
Yarn appearance index	110	110	115	110	105
Yarn imperfections:					
11.8 tex, combed	1	1	1	1	2
7.4 tex, combed	2	1	1	1	1
Waste, percent:					
Picker and card	11.7	10.2	11.5	9.9	13.4
Comber	13.5	13.6	14.0	12.0	14.2
	D 40				
	P-42	E-9	E-10	E-11	E-12
Classer's designation:					
Grade	6	6	10	10	10
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.5	15.3	15.0	15.0	15.3
7.4 tex, combed	13.1	12.8	13.1	12.0	13.1
Yarn appearance index	105	110	105	120	115
Yarn imperfections:					
11.8 tex, combed	1	1	2	1	1
7.4 tex, combed	2	1	1	1	1
Waste, percent:		_			
Picker and card	12.6	11.8	15.0	17.5	18.1
Comber	14.2	12.6	15.9	14.6	13.8

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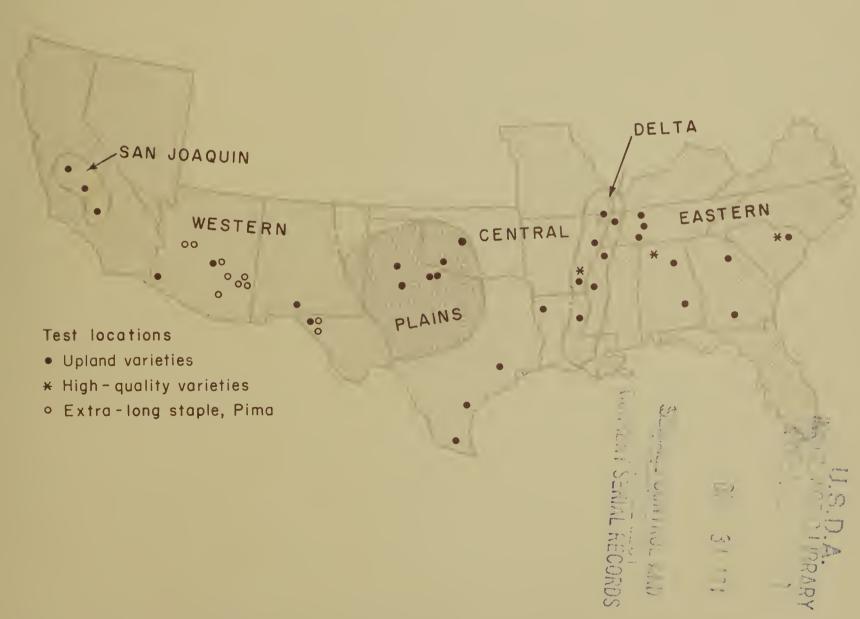
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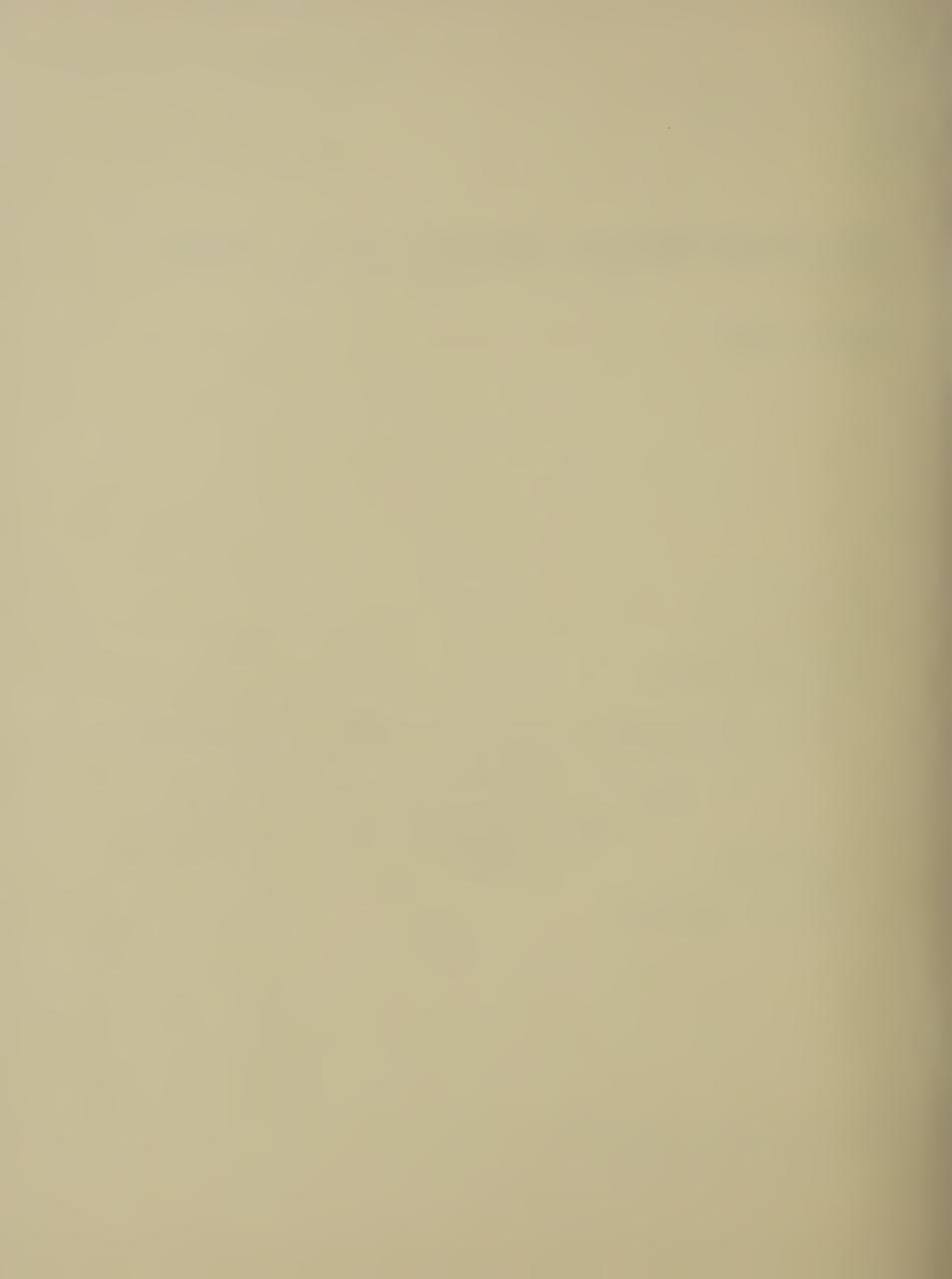
## FIRST CLASS

aSB245

# Regional Cotton Variety Tests, 1978 Seed Data



Science and Education Administration U.S. Department of Agriculture



#### REGIONAL COTTON VARIETY TESTS, 1978

#### Seed Data

Compiled by H. H. Ramey, Jr., research geneticist, and N. J. Acres, statistical assistant, Cotton Quality Laboratory, Science and Education Administration, in cooperation with the agricultural experiment stations of Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas

The Regional Cotton Variety Test series is available free of charge from the Cotton Quality Laboratory, Southern Regional Research Center, P.O. Box 19687, New Orleans, La. 70179. Reports for test years 1968-73 and 1975-78 are available. This report contains seed data for 1978; yield, boll, and spinning data for 1978 were published in January 1980. Fiber data are not available at this time.

#### ERRATA

Please make the following corrections in previous reports:

Regional Cotton Variety Tests, 1977. Yield, Boll, Seed, and Spinning Data.

- P. 4, 2d col., "Oil." "AOCS Method Aa 4-48" should read "AOCS Method Aa 4-38"
- P. 30, table 26. Under the heading "free gossypol," move the decimal point one place to the left. For example, "10.7" should read "1.07"

Regional Cotton Variety Tests, 1978. Yield, Boll, and Spinning Data.

- P. 41. Under the heading "variety," "Tamcot Sp 21S" should read "Tamcot Sp 21"
- P. 85. Add two names to the National Cotton Variety Testing Committee: W. P. Sappenfield, University of Missouri, Delta Center, Portage-ville, Mo.
  - H. W. Webb, Coker's Pedigreed Seed Co., Hartsville, S.C.

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#### INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a system for uniform reporting of data from cotton-yield trials across the U.S. Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State agricultural experiment stations. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year cycle of testing. (For the seventh 3-year cycle, beginning in 1978, the national standards were Acala SJ-5, Coker 310, Paymaster 303, and Stoneville Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. Each station may add entries of local interest, but only data on the national and regional standards are included in this report. All varieties are grown to obtain experimental data, and the designation of national or regional standards is not an endorsement of the varieties by the U.S. Department of Agriculture or the cooperating State agricultural experiment stations.

Plot size, cultural practices, number of entries, and sampling methods are left to the discretion of the participating stations. While the details are not rigidly standardized, all tests are conducted by experienced personnel using sound experimental designs and procedures.

The yield, boll, and spinning data for 1978 were published in January 1980. This report contains the seed data derived from samples sent by the cooperating stations to USDA's Cotton Quality Laboratory (then located in Knoxville, Tenn.), where the seed were analyzed. (The chemical analyses--oil, nitrogen, and free gossypol-were done by a private laboratory.) All data were assembled in the Cotton Quality Laboratory, and most were analyzed at the University of Tennessee computer center.

In 1978 the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were grown in all six regions. Strains developed in the Southern States with superior fiber properties and spinning performance were tested in three contiguous regions (high-quality test). Extra-long-staple American Pima varieties were tested in the Western Region.

#### REGIONAL TESTS AND PARTICIPATING STATIONS

Eastern Regional Cotton Variety Test (Upland Varieties)

Alabama Agricultural Experiment Station
Sand Mountain Substation
Georgia Coastal Plain Experiment Station
Georgia College Experiment Station
Pee Dee Experiment Station
Upper Coastal Plain Experiment Station
West Tennessee Agricultural Experiment Station
Ames Plantation
Milan Field Station

Auburn, Ala.
Crossville, Ala.
Tifton, Ga.
Athens, Ga.
Florence, S.C.
Rocky Mount, N.C.
Jackson, Tenn.
Grand Junction, Tenn.
Milan, Tenn.

#### Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station:

Delta Substation

Southeast Branch Experiment Station

Mississippi Agricultural and Forestry Experiment

Station:

Delta Branch

Off-station test

Missouri Agricultural Experiment Station,

Delta Center

Northeast Louisiana Experiment Station

West Tennessee Agricultural Experiment Station,

off-station test

Clarkedale, Ark. Rohwer, Ark.

Stoneville, Miss.

Tunica, Miss.

Portageville, Mo. St. Joseph, La.

Ridgely, Tenn.

Central Regional Cotton Variety Test (Upland Varieties)

Red River Valley Experiment Station

Texas A&M University:

Agricultural Research and Extension Center

Agricultural Research Station, off-station test

Texas Agricultural Experiment Station

Bossier City, La.

Weslaco, Tex.

Nueces County, Tex.

College Station, Tex.

Plains Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station:

Cotton Research Station (irrigated test)

Irrigation Experiment Station

Texas A&M University:

Agricultural Research and Extension Center

(Chillicothe):

Dryland test

Irrigated test
Agricultural Research and Extension Center

(Lubbock):

Irrigated test Off-station test Chickasha, Okla.

Altus, Okla.

Chillicothe, Tex. Chillicothe, Tex.

Lubbock, Tex. Halfway, Tex.

Western Regional Cotton Variety Test (Upland Varieties)

Arizona Agricultural Experiment Station:

Cotton Research Center

Yuma Valley Station

New Mexico Agricultural Experiment Station

Texas A&M University Agricultural Research Center

Phoenix, Ariz. Yuma, Ariz.

Las Cruces, N. Mex.

El Paso, Tex.

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

California Agricultural Experiment Station:

West Side Field Station

Off-station tests:

Five Points, Calif.

Madera, Calif.
Maricopa, Calif.

#### High-Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station, Tennessee Valley Substation Arkansas Agricultural Experiment Station, Southeast Branch Pee Dee Experiment Station

Belle Mina, Ala.

Rohwer, Ark. Florence, S.C.

#### Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station: Cotton Research Center Off-station tests:

Phoenix, Ariz.
Coolidge, Ariz.
Salome, Ariz.
Wenden, Ariz.
Marana, Ariz.
Safford, Ariz.

Marana Experimental Farm, off-station test
Safford Branch Station
Off-station tests:
Curtis farm
Layton farm

Safford, Ariz. Safford, Ariz.

Texas A&M University:
Agricultural Research Center

Off-station test, Maros farm

El Paso, Tex. Fabens, Tex.

#### TEST RESULTS

No interpretation of the test results other than the indication of the significant differences among means based on an analysis of variance is presented. Means followed by the same letter or letters cannot be considered significantly different at the 0.05 level of probability, as determined by Duncan's multiple-range test. A randomized-block design was used for all analyses, although some tests were planted in lattice designs. Seed data are based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first two tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield, as previously published. For some tests, subregional summaries are also included. Following these tables, average data for each location in the region are given, each table being arranged by variety in decreasing order of lint yield.

The column headings and symbols are defined as follows:

Acid-delinted-seed index. The mass of 100 acid-delinted seeds, in grams.

Floaters. The number of acid-delinted seeds that float in water, expressed as a percentage of the number of seeds in the sample. Seeds that float in water are considered immature, and a higher percentage indicates more immaturity.

Free gossypol. The gossypol in fuzzy seeds as determined by AOCS Method Ba 7-58; expressed as a percentage of the mass of the kernel.

<u>Linters</u>. The mass of linters removed in the acid-delinting process, expressed as a percentage of the mass of the fuzzy seeds.

Nitrogen. The nitrogen in fuzzy seeds as determined by AOCS Method Ba 4-38; expressed as a percentage of the mass of the fuzzy seeds. The percentage of nitrogen multiplied by 6.25 is an approximation of the percentage of protein.

Oil. The oil in fuzzy seeds as determined by AOCS Method Aa 4-38; expressed as a percentage of the mass of the fuzzy seeds.

Seed density. The mass per volume of a seed, expressed in grams per cubic centimetre; the specific gravity.

Seed grade. A visual estimate of the amount of linters on seeds. Seeds are graded from 1 to 16; 1=most dense coating, and 16=no linters (completely naked).

Seed index. The mass of 100 seeds, in grams.

Seed surface area. The surface area of a

seed in square millimetres; estimated by assuming that a seed is a cone on a hemispherical base and that the ratio of the diameter to the length is 1:1.755.

Seed volume. The volume of a seed in cubic millimetres.

### EASTERN REGIONAL COTTON VARIETY TEST

Table 1.--Eastern test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	19.5 b	3.48 fg	0.96 e	14.2 g	6.5 b
Coker 304	19.0 c	3.61 b	.98 cde	15.5 bcde	5.8 e
Stoneville 213	17.7 fg	3.49 fg	1.02 bcd	16.2 Ъ	5.7 e
Stoneville 825N	18.1 e	3.50 fg	1.03 b	16.2 Ъ	5.8 e
Stoneville 603	17.5 gh	3.40 i	.98 cde	14.3 fg	6.3 c
Deltapine 26	17.3 h	3.48 fg	.94 ef	15.2 cdef	6.5 Ъ
Stoneville 731N	17.8 ef	3.50 efg	.97 de	15.8 bcd	6.0 d
Deltapine 61	18.7 d	3.46 gh	.91 fg	14.9 defg	6.4 bc
Deltapine 55	17.9 ef	3.52 def	1.03 bc	14.4 fg	6.4 bc
Coker 315	18.1 c	3.62 b	•99 bcde	15.9 bc	5.8 e
McNair 220 Coker 310	18.0 c	3.55 de	.87 g	14.2 g	6.3 bc
S.C1	19.4 bc 20.7 a	3.60 bc 3.62 b	.95 ef 1.04 b	15.0 defg	6.0 d
Dixie King 3	18.5 d	3.43 hi	.98 cde	13.2 h 15.6 bcde	6.9 a
Coker 420	18.7 b	3.56 cd	1.16 a	18.8 a	5.8 e 4.8 f
Paymaster 303	19.6 b	3.52 def	.81 h	14.7 efg	5.8 e
Acala SJ-5	19.5 b	3.67 a	.74 i	13.2 h	6.1 d
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³ )	surface area (mm ² )	density (g/cm ³ )	(percent)	delinted- seed index
V V 1 025		107.0	1 01/ 1 1	0.7	0.0.1.5
McNair 235	92.1 c	107.0 c	1.016 bcd	2.7 e	9.3 def
Coker 304	90.3 cd	105.4 cd	1.042 a	3.6 de	9.4 def
Stoneville 213	94.9 c	109.0 c	.994 gh	4.7 cd	9.4 def 9.4 c
Stoneville 825N Stoneville 603	98.4 bc 97.2 bc	111.7 bc 110.8 bc	.955 defg .984 hi		9.4 c 9.5 cde
Deltapine 26	94.9 c	109.7 c	.980 i		9.3 def
Stoneville 731N	98.1 bc	111.5 bc	.997 fg		9.8 c
	96.7 bc	110.3 bc			
Deltapine 55	88.7 cd		1.011 cde		8.9 g
Coker 315	87.1 d	103.0 d	1.052 a	3.7 de	9.1 fg
McNair 220	97.5 bc	111.0 bc	1.006 defg		9.7 c
Coker 310	92.2 c	106.8 c	1.041 a		
S.C1	99.9 b	112.7 b	1.024 b	3.0 e	10.1 b
Dixie King 3	95.8 c	109.7 c	1.020 bc		9.7 c
_	87.8 cd	103.4 d	1.053 a		9.1 efg
Coker 420					
Coker 420		117.1 a	.995 gh	5.6 ab	10.5 a

Table 2.--Eastern test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Florence, S.C	19.8 a	3.27 e	1.03 b	16.8 b	6.2 b
Crossville, Ala Ames Plantation,	17.4 e	3.68 a	.98 c	14.1 d	6.1 c
Tenn	19.0 c	3.47 c	1.00 bc	13.0 e	6.0 d
Jackson, Tenn	19.0 c	3.64 b	1.03 ab	11.3 f	6.4 a
Milan, Tenn	17.6 e	3.68 a	.81 d	13.7 d	6.0 d
Tifton, Ga	19.4 Ъ	3.32 d	1.00 bc	18.1 a	5.4 f
Rocky Mount, N.C	19.6 ab	3.44 c	1.06 a	15.5 c	6.2 b
Auburn, Ala	17.9 d	3.65 ab	.79 d	16.5 b	5.6 e
Athens, Ga	19.1 c	3.62 b	.98 c	17.0 b	6.5 a
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Florence, S.C	87.3 d	103.2 d	1.061 b	2.4 b	9.2 d
Crossville, Ala Ames Plantation,	101.3 ab	114.0 ab	.930 f	10.4 a	9.4 cd
Tenn	99.2 Ъ	112.4 Ь	1.012 e	3.2 b	10.0 b
Jackson, Tenn	103.4 a	115.5 a	1.024 d	4.0 b	10.6 a
Milan, Tenn	92.7 c	107.4 c	1.011 e	6.1 b	9.3 cd
Tifton, Ga	92.0 c	106.8 с	1.010 e	2.2 b	9.2 d
Rocky Mount, N.C	76.8 e	94.6 e	1.090 a	2.4 b	8.3 e
Auburn, Ala	101.8 a	114.3 a	.938 f	5.3 b	9.5 c
Athens, Ga	103.2 a	115.5 a	1.043 c	3.0 Ъ	10.7 a

Table 3.--Eastern test: Seed data for Florence, S.C.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 26	16.9	3.30	0.90	16.1	7.0
Deltapine 61	19.4	3.10	<b>.9</b> 8	16.1	7.0
Coker 315	20.2	3.33	1.03	18.5	6.0
Coker 420	20.5	3.20	1.28	21.0	5.0
S.C1	21.6	3.37	1.06	14.6	7.0
McNair 235	20.8	3.13	<b>.9</b> 8	16.6	6.5
Coker 304	20.4	3.31	1.07	18.0	6.0
McNair 220	20.2	3.13	1.01	15.0	6.5
Coker 310	20.6	3.26	.99	16.9	6.0
Deltapine 55	19.7	3.27	1.13	16.9	7.0
Stoneville 825N	19.1	3.22	1.14	17.1	6.0
Stoneville 213	18.3	3.40	1.11	17.7	6.0
Stoneville 603	20.0	3.24	1.10	16.4	6.0
Stoneville 731N	18.3	3.35	.99	17.0	6.0
Dixie King 3	20.0	3.13	1.06	17.4	6.5
Paymaster 303	20.3	3.34	.85	16.3	6.0
Acala SJ-5	20.1	3.50	.76	15.0	6.5
	Seed volume	Seed surface	Seed density	Floaters (percent)	Acid- delinted-
	(mm ³ )	area (mm ² )	(g/cm ³ )	\	seed index
Deltanine 26	(mm ³ )	area (mm²)	(g/cm ³ )		seed index
Deltapine 26	(mm ³ ) 89.8	area (mm ² )	(g/cm ³ ) 0.997	3.2	seed index
Deltapine 61	(mm ³ )  89.8 84.5	area (mm ² ) 105.2 101.0	(g/cm ³ ) 0.997 1.043	3.2 0.8	seed index 8.9 8.8
Deltapine 61 Coker 315	(mm ³ )  89.8 84.5 76.5	area (mm ² )  105.2  101.0  94.5	(g/cm ³ )  0.997 1.043 1.103	3.2 0.8 2.0	8.9 8.8 8.4
Deltapine 61 Coker 315 Coker 420	(mm ³ )  89.8 84.5 76.5 78.4	105.2 101.0 94.5 96.0	(g/cm ³ )  0.997 1.043 1.103 1.107	3.2 0.8 2.0 0.5	8.9 8.8 8.4 8.6
Deltapine 61 Coker 315 Coker 420 S.C1	(mm ³ )  89.8 84.5 76.5 78.4 94.0	105.2 101.0 94.5 96.0 108.4	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067	3.2 0.8 2.0 0.5 1.2	8.9 8.8 8.4 8.6 10.0
Deltapine 61  Coker 315  Coker 420  S.C1  McNair 235	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045	3.2 0.8 2.0 0.5 1.2 1.2	8.9 8.8 8.4 8.6 10.0 9.2
Deltapine 61  Coker 315  Coker 420  S.C1  McNair 235  Coker 304	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089	3.2 0.8 2.0 0.5 1.2 1.2 2.8	8.9 8.8 8.4 8.6 10.0 9.2 8.6
Deltapine 61 Coker 315  Coker 420  S.C1  McNair 235  Coker 304  McNair 220	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8 90.4	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8 105.6	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089 1.043	3.2 0.8 2.0 0.5 1.2 1.2 2.8 3.0	8.9 8.8 8.4 8.6 10.0 9.2 8.6 9.4
Deltapine 61  Coker 315  Coker 420  S.C1  McNair 235  Coker 304  McNair 220  Coker 310	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8 90.4 84.0	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8 105.6 100.6	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089 1.043 1.100	3.2 0.8 2.0 0.5 1.2 1.2 2.8	8.9 8.8 8.4 8.6 10.0 9.2 8.6
Deltapine 61  Coker 315  S.C1  McNair 235  Coker 304  McNair 220  Deltapine 55	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8 90.4 84.0 78.4	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8 105.6	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089 1.043 1.100 1.059	3.2 0.8 2.0 0.5 1.2 1.2 2.8 3.0 1.0	8.9 8.8 8.4 8.6 10.0 9.2 8.6 9.4 9.2
Deltapine 61  Coker 315  Coker 420  S.C1  McNair 235  Coker 304  McNair 220  Coker 310  Deltapine 55  Stoneville 825N	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8 90.4 84.0 78.4 89.8	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8 105.6 100.6 96.1	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089 1.043 1.100 1.059 1.066	3.2 0.8 2.0 0.5 1.2 1.2 2.8 3.0 1.0 3.2	8.9 8.8 8.4 8.6 10.0 9.2 8.6 9.4 9.2 8.3
Deltapine 61  Coker 315  Scoker 420  S.C1  McNair 235  Coker 304  McNair 220  Coker 310  Deltapine 55  Stoneville 825N  Stoneville 213	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8 90.4 84.0 78.4 89.8 87.5	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8 105.6 100.6 96.1 105.1 103.4	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089 1.043 1.100 1.059 1.066 1.056	3.2 0.8 2.0 0.5 1.2 1.2 2.8 3.0 1.0 3.2 1.8 2.0	8.9 8.8 8.4 8.6 10.0 9.2 8.6 9.4 9.2 8.3 9.5
Deltapine 61  Coker 315  Scoker 420  S.C1  McNair 235  Coker 304  McNair 220  Coker 310  Deltapine 55  Stoneville 825N  Stoneville 213  Stoneville 603	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8 90.4 84.0 78.4 89.8 87.5 95.9	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8 105.6 100.6 96.1 105.1 103.4 109.9	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089 1.043 1.100 1.059 1.066 1.056 1.029	3.2 0.8 2.0 0.5 1.2 1.2 2.8 3.0 1.0 3.2 1.8 2.0 3.0	8.9 8.8 8.4 8.6 10.0 9.2 8.6 9.4 9.2 8.3 9.5 9.2
Deltapine 61  Coker 315  S.C1  McNair 235  Coker 304  McNair 220  Coker 310  Deltapine 55  Stoneville 825N  Stoneville 603  Stoneville 731N	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8 90.4 84.0 78.4 89.8 87.5 95.9	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8 105.6 100.6 96.1 105.1 103.4 109.9 105.2	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089 1.043 1.100 1.059 1.066 1.056 1.029 1.059	3.2 0.8 2.0 0.5 1.2 1.2 2.8 3.0 1.0 3.2 1.8 2.0 3.0	8.9 8.8 8.4 8.6 10.0 9.2 8.6 9.4 9.2 8.3 9.5 9.2 9.8
Deltapine 61  Coker 315  Scoker 420  S.C1  McNair 235  Coker 304  McNair 220  Coker 310  Deltapine 55  Stoneville 825N  Stoneville 213  Stoneville 603	(mm ³ )  89.8 84.5 76.5 78.4 94.0 88.2 76.8 90.4 84.0 78.4 89.8 87.5 95.9	area (mm ² )  105.2 101.0 94.5 96.0 108.4 103.9 94.8 105.6 100.6 96.1 105.1 103.4 109.9	(g/cm ³ )  0.997 1.043 1.103 1.107 1.067 1.045 1.089 1.043 1.100 1.059 1.066 1.056 1.029	3.2 0.8 2.0 0.5 1.2 1.2 2.8 3.0 1.0 3.2 1.8 2.0 3.0	8.9 8.8 8.4 8.6 10.0 9.2 8.6 9.4 9.2 8.3 9.5 9.5

Table 4.--Eastern test: Seed data for Jackson, Tenn.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	20.2	3.59	1.06	10.1	7.0
McNair 220	18.9	3.68	.99	11.2	7.0
Dixie King 3	19.3	3.53	1.10	12.4	6.0
Stoneville 213	17.7	3.62	1.10	13.0	6.0
Stoneville 603	17.4	3.50	1.05	10.9	7.0
Coker 304	18.9	3.72	1.10	12.2	6.0
Stoneville 731N	18.3	3.61	1.06	12.0	7.0
Stoneville 825N	18.7	3.61	1.08	11.5	6.0
Deltapine 26	18.1	3.52	•99	9.3	7.0
Coker 310	19.7	3.71	1.00	10.7	6.0
S.C1	21.1	3.72	1.09	10.1	7.0
Coker 315	19.7	3.70	1.13	11.6	6.0
Deltapine 55	17.8	3.61	1.05	10.0	7.0
Deltapine 61	18.7	3.59	1.04	10.8	7.0
Acala SJ-5	19.5	3.89	•72	10.1	6.0
Coker 420	20.0	3.67	1.20	14.1	6.0
Paymaster 303	20.1	3.60	• 84	11.7	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 235	97.4	111.0	1.032	2.2	10.0
McNair 220	114.6	123.6	1.010	4.8	11.5
Dixie King 3	104.2	116.1	1.033	1.8	10.7
Stoneville 213	102.0	114.5	.999	2.8	10.2
Stoneville 603	98.7	112.0	•991	5.0	9.8
Coker 304	95.9	109.9	1.057	5.5	10.1
Stoneville 731N	99.6	112.7	1.000	4.8	9.9
Stoneville 825N	106.5	117.8	1.007	2.8	10.7
Deltapine 26	104.9	116.6	•991	3.0	10.4
Coker 310	100.9	113.7	1.058	3.5	10.6
S.C1	109.2	119.8	1.031	2.2	11.2
Coker 315	94.5	108.8	1.070	3.8	10.1
Deltapine 55	102.2	114.3	1.009	6.2	10.3
	116.7	125.1	1.001	7.0	11.6
Deltapine 61	11047				
Deltapine 61 Acala SJ-5	106.9	118.2	1.045	4.2	11.1
-		118.2 110.7	1.045 1.066	4.2 3.8	11.1

Table 5.--Eastern test: Seed data for Crossville, Ala.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	19.1	3.65	1.06	12.9	7.0
Coker 304	17.7	3.86	.98	13.2	6.0
Coker 310	17.7	3.80	1.00	13.3	6.0
Stoneville 825N	16.4	3.65	.94	14.8	6.0
Coker 315	17.9	3.84	1.06	14.6	6.0
Stoneville 731N	17.0	3.61	.99	14.4	6.0
Coker 420	18.8	3.85	1.15	17.7	6.0
Stoneville 213	16.7	3.56	1.01	15.5	6.0
Deltapine 61	16.9	3.66	.91	14.3	6.0
Stoneville 603	15.6	3.51	.91	12.7	7.0
Deltapine 26	16.2	3.57	.99	13.7	6.0
S.C1	19.2	3.77	1.11	13.2	7.0
Deltapine 55	16.9	3.72	1.04	13.6	6.0
Paymaster 303	18.7	3.72	.80	13.8	6.0
Dixie King 3	17.2	3.55	• 97	14.7	6.0
Acala SJ-5	16.6	3.57	•92	15.5	6.0
McNair 220	18.2	3.73	. 87	12.6	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 235	102.1	115.9	0.959	5.2	9.8
Coker 304	96.5	110.3	•951	10.0	9.2
Coker 304	96.5 96.9	110.3 110.9	•951 •951	10.0	9.2 9.2
Coker 310	96.5 96.9 99.8	110.9	•951 •951 •922	7.8 15.5	9.2 9.2 9.2
Coker 310 Stoneville 825N	96.9		•951	7.8	9.2
Coker 310 Stoneville 825N Coker 315	96.9 99.8	110.9 112.8	.951 .922	7.8 15.5	9.2 9.2
Coker 310 Stoneville 825N Coker 315 Stoneville 731N	96.9 99.8 91.7 105.7	110.9 112.8 106.6 117.3	.951 .922 .950	7.8 15.5 9.8	9.2 9.2 8.7
Coker 310	96.9 99.8 91.7 105.7 91.4	110.9 112.8 106.6 117.3 106.4	.951 .922 .950 .929	7.8 15.5 9.8 13.8	9.2 9.2 8.7 9.8
Coker 310 Stoneville 825N Coker 315 Stoneville 731N Coker 420 Stoneville 213	96.9 99.8 91.7 105.7 91.4 108.0	110.9 112.8 106.6 117.3	.951 .922 .950 .929	7.8 15.5 9.8 13.8 4.5	9.2 9.2 8.7 9.8 8.7
Coker 310	96.9 99.8 91.7 105.7 91.4 108.0 101.5	110.9 112.8 106.6 117.3 106.4 119.0	.951 .922 .950 .929 .951	7.8 15.5 9.8 13.8 4.5 9.5	9.2 9.2 8.7 9.8 8.7 9.9
Coker 310	96.9 99.8 91.7 105.7 91.4 108.0	110.9 112.8 106.6 117.3 106.4 119.0	.951 .922 .950 .929 .951 .918	7.8 15.5 9.8 13.8 4.5 9.5 20.0	9.2 9.2 8.7 9.8 8.7 9.9
Coker 310	96.9 99.8 91.7 105.7 91.4 108.0 101.5 99.6	110.9 112.8 106.6 117.3 106.4 119.0 114.1 112.7	.951 .922 .950 .929 .951 .918 .906	7.8 15.5 9.8 13.8 4.5 9.5 20.0 17.2	9.2 9.2 8.7 9.8 8.7 9.9 9.2 8.9
Coker 310	96.9 99.8 91.7 105.7 91.4 108.0 101.5 99.6 106.4	110.9 112.8 106.6 117.3 106.4 119.0 114.1 112.7 117.8	.951 .922 .950 .929 .951 .918 .906	7.8 15.5 9.8 13.8 4.5 9.5 20.0 17.2 10.8	9.2 9.2 8.7 9.8 8.7 9.9 9.2 8.9 9.6
Coker 310	96.9 99.8 91.7 105.7 91.4 108.0 101.5 99.6 106.4 98.7 99.5	110.9 112.8 106.6 117.3 106.4 119.0 114.1 112.7 117.8 112.1	.951 .922 .950 .929 .951 .918 .906 .893 .906	7.8 15.5 9.8 13.8 4.5 9.5 20.0 17.2 10.8 8.2	9.2 9.2 8.7 9.8 8.7 9.9 9.2 8.9 9.6 9.2
Coker 310	96.9 99.8 91.7 105.7 91.4 108.0 101.5 99.6 106.4 98.7	110.9 112.8 106.6 117.3 106.4 119.0 114.1 112.7 117.8 112.1 112.7	.951 .922 .950 .929 .951 .918 .906 .893 .906	7.8 15.5 9.8 13.8 4.5 9.5 20.0 17.2 10.8 8.2 7.0	9.2 9.2 8.7 9.8 8.7 9.9 9.2 8.9 9.6 9.2 9.2
Coker 310 Stoneville 825N Coker 315 Stoneville 731N Coker 420 Stoneville 213 Deltapine 61 Stoneville 603 Deltapine 26 Deltapine 55	96.9 99.8 91.7 105.7 91.4 108.0 101.5 99.6 106.4 98.7 99.5 111.8	110.9 112.8 106.6 117.3 106.4 119.0 114.1 112.7 117.8 112.1 112.7	.951 .922 .950 .929 .951 .918 .906 .893 .906	7.8 15.5 9.8 13.8 4.5 9.5 20.0 17.2 10.8 8.2 7.0 7.5	9.2 9.2 8.7 9.8 8.7 9.9 9.2 8.9 9.6 9.2 9.2

Table 6.--Eastern test: Seed data for Grand Junction (Ames Plantation), Tenn.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 731N	17.2	3.41	0.93	14.7	6.0
Stoneville 825N	17.8	3.54	1.01	15.0	6.0
McNair 235	19.9	3.30	1.03	12.5	6.0
Deltapine 26	17.9	3.47	1.08	17.5	6.0
Stoneville 213	18.0	3.39	1.12	13.2	6.0
Stoneville 603	17.5	3.30	.99	12.3	6.0
Coker 310	19.7	3.61	1.01	12.1	6.0
Deltapine 61	19.3	3.35	•93	12.7	6.0
Deltapine 55	17.8	3.48	1.06	9.6	6.0
Coker 315	19.4	3.59	1.06	13.8	6.0
Coker 304	19.2	3.51	. 96	13.2	6.0
Coker 420	20.1	3.51	1.25	15.6	6.0
Dixie King 3	19.1	3.34	1.02	14.1	6.0
McNair 220	19.3	3.51	.88	12.7	6.0
s.c1	20.9	3.52	1.09	11.8	7.0
Paymaster 303	20.2	3.51	.88	11.4	6.0
Acala SJ-5	20.6	3.72	• 74	9.7	6.0
	Seed volume	Seed surface	Seed density	Floaters (percent)	Acid- delinted-
	(mm ³ )	area (mm²)	(g/cm ³ )		seed index
Stoneville 731N	101.5	114.1	0.967	3.5	9.8
Stoneville 825N	105.8	117.3	.961	5.2	10.1
McNair 235	96.3	110.2	. 994	1.8	9.5
Deltapine 26	94.2	108.5	1.021	2.2	9.6
Stoneville 213	98.9	112.2	1.007	4.0	9.9
Stoneville 603	105.0	116.7	.971	6.2	10.2
Coker 310	93.8	108.3	1.057	2.5	9.9
Deltapine 61	102.6	114.9	<b>.</b> 986	2.8	10.1
Deltapine 55	95.4	109.5	1.000	4.8	9.5
Coker 315	92.1	106.9	1.063	3.8	9.8
Coker 304	90.9	106.0	1.053	2.8	9.5
OURCE SOI TITTE	00 /	105.7	1.066	1.0	9.6
Coker 420	90.4	103.7			
	100.2	113.1	1.010	2.8	10.1
Coker 420			1.010 .986	2.8 1.8	10.1
Coker 420 Dixie King 3	100.2	113.1			
Coker 420 Dixie King 3 McNair 220	100.2 103.0	113.1 115.2	.986	1.8	10.1

Table 7.--Eastern test: Seed data for Milan, Tenn.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 235	17.5	3.68	0.72	14.0	6.0
Stoneville 213	16.4	3.60	.88	15.4	6.0
Dixie King 3	17.1	3.53	.77	15.1	6.0
Stoneville 603	15.8	3.49	.76	13.1	6.0
Deltapine 61	18.1	3.60	.81	11.6	6.0
Stoneville 825N	16.4	3.55	•92	15.1	6.0
Stoneville 731N	16.8	3.61	.85	13.8	6.0
Deltapine 26	16.6	3.58	.80	14.4	6.5
Coker 310	18.3	3.81	.77	13.2	6.0
Paymaster 303	19.1	3.62	.74	12.3	6.0
Deltapine 55	16.1	3.75	. 87	13.9	6.0
Coker 304	18.2	3.85	.81	13.9	6.0
McNair 220	17.3	3.78	.71	14.3	6.0
Coker 315	18.1	3.79	.83	14.5	6.0
S.C1	19.4	3.81	.86	12.5	7.0
Coker 420	19.1	3.78	•98	17.2	5.0
Acala SJ-5	19.9	3.83	.70	9.4	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 235	90.5	105.7	0.999	6.5	9.0
Stoneville 213	88.6	104.3	•973	11.5	8.6
Dixie King 3	91.1	106.2	1.020	4.8	9.3
Stoneville 603	93.3	107.9	•974	11.2	9.1
Deltapine 61	94.5	108.8	1.006	7.8	9.5
Stoneville 825N	93.9	108.3	1.001	7.2	9.4
Stoneville 731N	96.2	110.1	.995	5.8	9.5
Deltapine 26	94.3	108.6	.984	6.8	9.2
Coker 310	89.3	104.7	1.030	6.0	9.2
Paymaster 303	103.8	115.8	1.000	6.8	10.3
Deltapine 55	81.1	98.3	.990	8.8	8.0
Coker 304	92.2	107.0	1.041	2.2	9.6
McNair 220	94.0	108.4	.998	3.2	9.3
TICHATI 220		102.3	1.043	3.2	9.0
	00.1				
Coker 315	86.1 97.2		1.061	3.2	9.9
Coker 315	97.2 86.7	110.9 102.8	1.061 1.032	3.2 3.5	9.9 8.9

Table 8.--Eastern test: Seed data for Tifton, Ga.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	20.2	3.35	0.88	16.6	6.0
Deltapine 61	19.3	3.35	.87	19.3	6.0
McNair 235	19.9	3.35	•94	16.1	6.0
Deltapine 55	18.7	3.34	1.07	17.6	6.0
S.C1	21.9	3.35	. 99	15.7	7.0
Stoneville 825N	18.8	3.29	1.11	20.4	5.0
Stoneville 603	18.4	3.21	1.02	16.1	6.0
Stoneville 213	19.3	3.30	1.14	18.5	5.0
Coker 420	20.0	3.26	1.15	22.6	3.0
Coker 315	19.4	3.41	•96	18.9	5.0
Deltapine 26	17.5	3.27	.89	17.5	6.0
Stoneville 731N	19.0	3.33	1.17	18.9	5.0
Coker 304	19.7	3.36	1.02	17.9	5.0
Coker 310	20.2	3.42	1.08	18.6	5.5
Dixie King 3	19.3	3.29	1.08	17.1	5.0
Paymaster 303	20.1	3.29	.85	17.5	5.5
Acala SJ-5	19.2	3.35	.79	17.9	5.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 220	94.9	108.1	1.011	1.5	9.5
Deltapine 61	84.5	101.0	.995	1.5	8.3
McNair 235	92.5	107.4	1.005	2.0	9.3
Deltapine 55	81.4	98.5	1.02/	U.O	0.0
Deltapine 55 S.C1	81.4 96.3	98.5 110.1	1.027	0.8	8.3 9.9
S.C1	96.3	110.1	1.032	1.0	9.9
S.C1 Stoneville 825N	96.3 92.6	110.1 107.4	1.032 1.031	1.0 3.0	9.9 9.5
S.C1	96.3 92.6 95.4	110.1 107.4 109.5	1.032 1.031 .998	1.0 3.0 3.0	9.9 9.5 9.5
S.C1 Stoneville 825N	96.3 92.6	110.1 107.4	1.032 1.031	1.0 3.0	9.9 9.5
S.C1	96.3 92.6 95.4 93.0	110.1 107.4 109.5 107.7	1.032 1.031 .998 .978	1.0 3.0 3.0 2.0	9.9 9.5 9.5 9.1
S.C1	96.3 92.6 95.4 93.0 82.3	110.1 107.4 109.5 107.7 99.2	1.032 1.031 .998 .978 1.054	1.0 3.0 3.0 2.0 1.5	9.9 9.5 9.5 9.1 8.6
S.C1	96.3 92.6 95.4 93.0 82.3 84.8	110.1 107.4 109.5 107.7 99.2 101.3	1.032 1.031 .998 .978 1.054 1.038	1.0 3.0 3.0 2.0 1.5 2.8	9.9 9.5 9.5 9.1 8.6 8.8
S.C1	96.3 92.6 95.4 93.0 82.3 84.8 91.6	110.1 107.4 109.5 107.7 99.2 101.3 106.6	1.032 1.031 .998 .978 1.054 1.038 .956	1.0 3.0 3.0 2.0 1.5 2.8 3.0	9.9 9.5 9.5 9.1 8.6 8.8 8.7
S.C1	96.3 92.6 95.4 93.0 82.3 84.8 91.6 92.7	110.1 107.4 109.5 107.7 99.2 101.3 106.6 107.4	1.032 1.031 .998 .978 1.054 1.038 .956 1.026	1.0 3.0 3.0 2.0 1.5 2.8 3.0 2.2	9.9 9.5 9.5 9.1 8.6 8.8 8.7 9.5
S.C1	96.3 92.6 95.4 93.0 82.3 84.8 91.6 92.7 87.0	110.1 107.4 109.5 107.7 99.2 101.3 106.6 107.4	1.032 1.031 .998 .978 1.054 1.038 .956 1.026 1.035	1.0 3.0 3.0 2.0 1.5 2.8 3.0 2.2 2.0	9.9 9.5 9.5 9.1 8.6 8.8 8.7 9.5 8.9
S.C1	96.3 92.6 95.4 93.0 82.3 84.8 91.6 92.7 87.0	110.1 107.4 109.5 107.7 99.2 101.3 106.6 107.4 102.9 105.6	1.032 1.031 .998 .978 1.054 1.038 .956 1.026 1.035 1.042	1.0 3.0 3.0 2.0 1.5 2.8 3.0 2.2 2.0	9.9 9.5 9.5 9.1 8.6 8.8 8.7 9.5 8.9

Table 9.--Eastern test: Seed data for Rocky Mount, N.C.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 304	19.9	3.44	1.00	16.0	6.0
Deltapine 55	18.9	3.31	1.15	14.7	7.0
Dixie King 3	17.9	3.47	1.03	15.4	6.0
Coker 310	19.8	3.43	•95	15.1	6.0
Coker 315	19.6	3.51	1.01	16.4	6.0
McNair 235	20.3	3.31	1.12	14.4	7.0
Stoneville 603	18.5	3.42	1.21	16.5	6.0
Deltapine 26	18.1	3.44	1.06	16.1	7.0
Coker 420	20.4	3.41	1.22	20.2	5.0
Deltapine 61	20.3	3.37	1.15	16.7	7.0
Stoneville 213	18.9	3.50	1.02	14.3	6.0
S.C1	22.1	3.57	1.19	12.5	7.0
Stoneville 825N	20.0	3.42	1.29	15.7	
		3.48			5.5
Stoneville 731N	19.1		1.21	16.3	6.0
Paymaster 303	19.7	3.32	.80	15.7	6.0
McNair 220	19.5	3.53	.99	14.6	7.0
Acala SJ-5	20.1	3.61	.70	13.9	6.5
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	(mm ³ )	area (mm ² )	(g/cm ³ )		seed index
Coker 304	74.6	93.0	1.111	1.8	8.3
Deltapine 55	68.7	88.0	1.111	0.8	7.6
Dixie King 3	79.2	96.7	1.037	1.5	8.2
Coker 310	72.0	89.8	1.116	2.0	8.0
Coker 315	62.8	82.9	1.144	1.0	7.2
McNair 235	72.4	91.0	1.100	1.2	7.9
Stoneville 603	79.6	97.1	1.073	3.2	8.2
Deltapine 26	76.3	94.3	1.066	1.8	8.1
Coker 420	68.9	88.1	1.153	3.2	7.7
	72.6	91.4	1.096	2.5	7.9
Deltapine 61	70.7	90.6	1.102	1.2	7.7
Stoneville 213			1.111	1.0	8.6
S.C1	77.7	95.5		3.8	9.2
Stoneville 825N	87.3	103.2	1.054		9.6
Stoneville 731N	92.5	107.2	1.042	4.5	
	88.9	104.5	1.039	7.5	9.2
•		0/ 2	1 000	1 ()	0 0
Paymaster 303 McNair 220 Acala SJ-5	76.1 86.5	94.3 102.6	1.090 1.088	1.0 2.5	8.3 9.4

Table 10.--Eastern test: Seed data for Auburn, Ala.

Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
18.4	3.63	0.73	15.2	6.0
16.5	3.58	•71	18.3	6.0
16.9	3.58	.81	19.2	6.0
18.5	3.77	.86	15.0	6.0
16.3	3.44	.86	15.6	6.0
18.0	3.57	.74	17.5	5.0
18.9	3.62	.74	17.5	5.0
	3.65	.83	19.1	5.0
	3.65	•70	15.7	6.0
				6.0
				5.0
				4.0
				6.5
				6.0
				6.0
				6.0
				6.0
Seed	Seed	Seed	Floaters	Acid-
volume	surface	density	(percent)	delinted-
(mm ³ )	area (mm ² )	$(g/cm^3)$		seed index
99.4	112.5	0.942	1.5	9.3
99.4	112.6	•915	9.2	9.1
				9.0
97.7	111.3			9.7
101.9				9.2
				9.7
			3.8	10.4
				9.3
				9.0
				9.5
				9.8
101.5	114.1	.988	2.2	10.0
		.949	5.0	10.0
105.5				
105.5	117.1 114.8			
102.5	114.8	.912	7.5	9.3
	18.4 16.5 16.9 18.5 16.3 18.0 18.9 16.4 18.0 18.7 18.4 18.1 19.4 17.1 17.4 16.9 19.4  Seed volume (mm³)	18.4 3.63 16.5 3.58 16.9 3.58 18.5 3.77 16.3 3.44 18.0 3.57 18.9 3.62 16.4 3.65 18.0 3.65 18.7 3.73 18.4 3.70 18.1 3.68 19.4 3.79 17.1 3.66 17.4 3.56 16.9 3.63 19.4 3.85  Seed Seed volume surface (mm³) area (mm²)  99.4 112.5 99.4 112.6 98.8 112.1 97.7 111.3 101.9 114.4 102.4 114.8 111.9 121.8 102.2 114.7 97.3 111.0 99.2 112.4	(percent)       (percent)       gossypol (percent)         18.4       3.63       0.73         16.5       3.58       .71         16.9       3.58       .81         18.5       3.77       .86         16.3       3.44       .86         18.0       3.57       .74         18.9       3.62       .74         16.4       3.65       .83         18.0       3.65       .70         18.7       3.73       .76         18.4       3.70       .82         18.1       3.68       1.04         19.4       3.79       .89         17.1       3.66       .87         17.4       3.56       .68         16.9       3.63       .84         19.4       3.85       .66         Seed       Seed       Seed         volume       surface       density         (mm³)       area (mm²)       (g/cm³)         99.4       112.6       .915         98.8       112.1       .911         97.7       111.3       .976         101.9       114.4       .899         102.4 <td>(percent)       (percent)       (percent)         18.4       3.63       0.73       15.2         16.5       3.58       .71       18.3         16.9       3.58       .81       19.2         18.5       3.77       .86       15.0         16.3       3.44       .86       15.6         18.0       3.57       .74       17.5         18.9       3.62       .74       17.5         18.9       3.65       .83       19.1         18.0       3.65       .70       15.7         18.7       3.73       .76       16.6         18.4       3.70       .82       16.5         18.1       3.68       1.04       19.2         19.4       3.79       .89       13.5         17.1       3.66       .87       15.9         17.4       3.56       .68       15.9         16.9       3.63       .84       16.1         19.4       3.85       .66       14.3         Seed       Seed       Seed       Floaters         volume       surface       density       (percent)         99.4       112.6       &lt;</td>	(percent)       (percent)       (percent)         18.4       3.63       0.73       15.2         16.5       3.58       .71       18.3         16.9       3.58       .81       19.2         18.5       3.77       .86       15.0         16.3       3.44       .86       15.6         18.0       3.57       .74       17.5         18.9       3.62       .74       17.5         18.9       3.65       .83       19.1         18.0       3.65       .70       15.7         18.7       3.73       .76       16.6         18.4       3.70       .82       16.5         18.1       3.68       1.04       19.2         19.4       3.79       .89       13.5         17.1       3.66       .87       15.9         17.4       3.56       .68       15.9         16.9       3.63       .84       16.1         19.4       3.85       .66       14.3         Seed       Seed       Seed       Floaters         volume       surface       density       (percent)         99.4       112.6       <

Table 11.--Eastern test: Seed data for Athens, Ga.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Dixie King 3	19.1	3.44	1.09	17.1	6.0
McNair 235	19.9	3.67	1.05	16.1	7.0
McNair 220	19.7	3.61	.88	15.5	7.0
Deltapine 61	18.8	3.54	.87	17.0	7.0
S.C1	20.8	3.75	1.09	15.1	7.0
Stoneville 213	17.9	3.47	1.00	19.0	6.0
Coker 315	19.3	3.70	1.02	18.5	6.5
Stoneville 825N	18.9	3.61	1.02	16.8	6.5
Coker 310	19.7	3.68	• 98	18.2	7.0
Coker 304	19.2	3.66	1.07	20.0	6.0
Stoneville 603	18.1	3.53	•99	14.9	7.0
Stoneville 731N	18.4	3.56	.88	16.8	6.5
Coker 420	19.5	3.70	1.24	21.4	5.0
Paymaster 303	19.3	3.64	.82	16.5	6.0
Deltapine 55	18.5	3.64	1.06	16.9	7.0
Deltapine 26	17.3	3.52	• 93	16.3	7.0
Acala SJ-5	20.0	3.78	.70	13.3	7.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Dixie King 3	99.8	112.8	1.074	2.0	10.7
McNair 235	90.2	105.5	1.074	2.3	9.7
McNair 220	99.7	112.8	1.058	2.0	10.5
Deltapine 61	107.1	118.3	1.029	2.8	11.0
S.C1	116.9	125.4	1.039	2.8	12.1
Stoneville 213	103.4	115.6	1.008	1.6	10.4
Coker 315	94.5	110.5	1.073	1.0	10.1
Stoneville 825N	106.2	117.6	1.046	3.3	11.1
Coker 310	103.8	115.9	1.053	1.5	10.6
Coker 304	101.1	113.9	1.069	1.8	10.5
Stoneville 603	105.5	117.1	1.030	2.7	10.9
Stoneville 731N	105.7	117.2	1.044	2.1	11.0
Coker 420	93.6	108.2	1.058	3.6	9.9
Paymaster 303	117.9	126.1	1.003	5.2	11.8
Deltapine 55	95.6	109.6	1.048	4.0	10.0
_	103.0	115.2	•989	6.5	10.2
Deltapine 26 Acala SJ-5	111.4	121.4	1.039	5.0	11.5

## DELTA REGIONAL COTTON VARIETY TEST

Table 12.--Delta test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.9 e	3.33 f	1.15 a	14.9 a	5.4 f
DES 56	18.7 b	3.48 bc	1.15 a	12.3 c	6.4 b
Deltapine 55	18.0 de	3.41 cde	l.ll a	12.7 c	6.1 c
Stoneville 731N	17.7 e	3.38 de	1.15 a	14.0 ab	5.8 de
Deltapine 61	18.5 bc	3.28 f	1.07 ab	13.0 bc	6.4 b
Stoneville 256	17.9 de	3.38 de	1.16 a	13.5 bc	6.0 cd
Coker 310	19.9 a	3.39 cde	1.10 a	13.4 bc	5.7 e
DES 24	18.3 cd	3.52 b	1.18 a	12.8 bc	5.9 cde
Paymaster 303	20.0 a	3.44 bcd	.95 b	13.2 bc	5.7 e
Rex 713	19.8 a	3.43 bcd	1.10 a	10.8 d	7.0 a
Acala SJ-5	19.9 a	3.74 a	.79 c	10.3 d	5.8 de
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	101.5 cd	114.2 b	1.007 def	3.5 cd	10.2 d
DES 56	100.1 cde	113.1 b	1.019 cd	2.5 de	10.2 d
Deltapine 55	91.1 f	106.2 c	1.029 bc	2.7 de	9.3 f
Stoneville 731N	97.7 e	111.2 bc	1.011 def	5.8 ab	9.8 e
Deltapine 61	99.6 de	112.7 b	.996 f	3.1 de	9.9 e
Stoneville 256	97.7 e	111.3 bc	1.010 def	6.6 a	9.8 e
Coker 310	102.0 cd	114.5 b	1.050 a	2.0 e	10.7 c
DES 24	103.2 c	115.4 b	1.034 bc	2.5 de	10.6 c
Paymaster 303	111.4 b	121.4 a	1.012 de	4.6 bc	11.2 b
Rex 713	118.4 a	126.4 a	1.002 ef	5.1 b	11.8 a
Acala SJ-5	112.6 b	122.3 a	1.043 ab	2.8 de	11.7 a

Table 13.--Delta test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
St. Joseph, La Stoneville, Miss Tunica, Miss Portageville, Mo Clarkedale, Ark Rohwer, Ark Ridgely, Tenn	19.8 b 17.5 e 17.1 f 19.0 c 20.9 a 18.6 d 18.7 cd	3.33 c 3.46 b 3.82 a 3.49 b 3.16 d 3.51 b 3.28 c	1.16 b .97 c .59 d 1.08 b 1.13 b 1.53 a 1.13 b	12.4 b 13.6 a 12.4 b 13.8 a 12.2 b 11.7 b 13.4 a	6.6 a 6.1 b 6.0 b 6.2 b 5.6 c 5.7 c 5.8 c
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
St. Joseph, La Stoneville, Miss Tunica, Miss Portageville, Mo Clarkedale, Ark Rohwer, Ark Ridgely, Tenn	102.0 b 106.5 a 103.3 b 106.6 a 97.1 c 105.8 a 101.4 b	114.4 b 117.8 a 115.4 b 117.8 a 110.8 c 117.7 a 114.0 b	1.043 a .989 c 1.025 b 1.032 ab 1.027 b 1.032 ab .988 c	2.0 c 5.0 a 4.8 a 5.2 a 3.5 b 2.2 c 3.5 b	10.6 b 10.5 b 10.6 b 11.0 a 9.9 c 10.9 a 10.0 c

Table 14.--Delta test: Seed data for St. Joseph, La.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 55	19.3	3.24	1.21	11.5	7.0
Deltapine 61	20.0	3.04	1.21	13.2	7.0
DES 56	20.0	3.23	1.21	12.3	7.0
Stoneville 256	19.2	3.28	1.17	12.1	6.5
Stoneville 731N	19.0	3.34	1.18	12.4	6.5
Coker 310	20.5	3.46	1.08	15.6	6.5
Stoneville 213	18.1	3.38	1.21	13.9	6.0
DES 24	19.6	3.37	1.16	12.9	6.5
Paymaster 303	20.5	3.46	1.06	13.1	6.5
Acala SJ-5	20.8	3.54	. 96	9.4	6.5
Rex 713	20.6	3.33	1.30	9.8	7.5
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Deltapine 55	89.2	104.7	1.065	0.5	9.5
Deltapine 61	95.6	109.6	1.013	1.0	9.6
DES 56	99.9	112.9	1.037	1.0	10.3
Stoneville 256	98.5	111.9	1.035	3.5	10.2
Stoneville 731N	99.4	112.5	1.045	2.8	10.4
Coker 310	98.7	112.1	1.079	0.5	10.6
Stoneville 213	102.3	114.7	1.030	2.0	10.5
DES 24	100.6	113.4	1.059	0.5	10.6
Paymaster 303	111.3	120.9	1.025	3.2	11.4
•				1.0	11.4
Acala SJ-5	106.5	117.8	1.070	1.0	11.4

Table 15.--Delta test: Seed data for Portageville, Mo.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 731N	18.3	3.33	1.22	16.2	6.0
DES 56	19.0	3.62	1.09	12.5	7.0
Stoneville 213	18.2	3.35	1.23	15.7	5.5
Stoneville 256	18.5	3.54	1.21	13.9	6.0
Deltapine 55	18.3	3.39	1.11	13.7	6.0
Deltapine 61	18.5	3.32	1.01	13.5	7.0
Coker 310	20.2	3.38	1.20	15.4	6.0
DES 24	18.5	3.56	1.01	15.5	6.0
Paymaster 303	19.7	3.52	• 96	13.9	6.0
Rex 713	19.9	3.62	1.06	11.7	7.0
Acala SJ-5	19.9	3.79	. 79	10.3	6.5
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 731N	97.0	110.8	1.003	9.5	9.7
DES 56	104.7	116.6	1.033	2.8	10.8
Stoneville 213	101.1	113.8	1.024	5.2	10.3
Stoneville 256	101.4	114.1	1.046	8.0	10.6
Deltapine 55	88.2	104.0	1.043	5.5	9.2
Deltapine 61	106.2	117.6	1.013	4.2	10.7
Coker 310	104.5	116.4	1.059	2.8	11.0
DES 24	104.5	116.4	1.045	2.2	10.9
Paymaster 303	118.2	126.4	1.024	6.8	12.1
Rex 713	127.7	133.0	1.021	4.5	13.0
Acala SJ-5	118.8	126.8	1.041	5.8	12.3

Table 16.--Delta test: Seed data for Stoneville, Miss.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
DES 56	17.9	3.39	1.05	12.4	6.5
Deltapine 61	17.5	3.32	.86	14.3	6.0
Coker 310	18.4	3.52	• 96	13.9	6.0
Stoneville 213	16.5	3.38	1.13	15.2	6.0
Stoneville 256	16.4	3.37	• 95	14.1	6.0
DES 24	17.2	2.47	1.09	14.4	6.0
Deltapine 55	16.9	3.46	1.02	14.6	6.0
Stoneville 731N	16.3	3.53	•99	14.7	6.0
Paymaster 303	18.9	3.41	1.04	13.8	6.0
Rex 713	18.4	3.43	•90	11.2	7.0
Acala SJ-5	18.5	3.77	.71	11.0	6.0
	Seed volume (min ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
DES 56	100.2	113.2	0.999	3.2	10.0
Deltapine 61	109.3	119.7	•907	5.0	9.8
Coker 310	105.2	116.9	1.030	2.5	10.8
Stoneville 213	101.7	114.2	.987	4.2	10.0
Stoneville 256	99.3	112.5	.984	9.2	9.7
DES 24	107.3	118.4	1.005	4.0	10.8
Deltapine 55	93.0	107.6	1.015	1.0	9.4
Stoneville 731N	98.7	112.0	.988	7.5	9.7
Paymaster 303	116.7	125.3	.986	4.5	11.5
Rex 713	122.6	129.5	.977	9.0	12.0

Table 17.--Delta test: Seed data for Tunica, Miss.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	16.5	3.70	0.72	14.9	5.0
DES 24	16.5	3.89	.67	12.5	6.0
Deltapine 55	16.1	3.84	•63	13.0	6.0
DES 56	17.3	3.89	•58	11.9	6.0
Deltapine 61	17.2	3.69	.49	12.3	7.0
Coker 310	18.2	3.80	•62	11.3	6.0
Stoneville 731N	15.6	3.71	• 59	13.6	6.0
Stoneville 256	16.0	3.77	.61	13.8	6.0
Rex 713	17.8	3.87	•55	10.3	7.0
Paymaster 303	18.4	3.84	.57	12.6	6.0
Acala SJ-5	19.2	4.02	• 50	10.7	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	100.0	112.9	1.015	4.8	10.1
DES 24	104.1	116.0	1.041	3.2	10.8
Deltapine 55	94.2	108.6	1.020	4.8	9.6
DES 56	98.7	112.1	1.032	3.2	10.2
Deltapine 61	100.4	113.3	1.028	2.2	10.3
Coker 310	110.3	120.6	1.045	1.5	11.7
Stoneville 731N	95.9	109.8	1.007	10.8	9.6
Stoneville 256	95.8	109.8	1.011	9.8	9.7
Rex 713	114.3	123.5	•999	5.0	11.4
Paymaster 303	110.0	120.4	1.006	5.5	11.0
Acala SJ-5	112.5	122.2	1.069	2.2	12.0

Table 18.--Delta test: Seed data for Clarkedale, Ark.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	20.0	3.05	1.08	12.8	6.0
Deltapine 55	19.6	3.30	1.16	9.7	6.0
Stoneville 213	21.1	3.04	1.22	14.8	5.0
Coker 310	21.2	3.22	1.14	11.6	5.5
Paymaster 303	22.8	2.96	1.13	13.3	5.0
Stoneville 731N	20.2	3.11	1.11	13.8	5.0
Stoneville 256	20.3	3.06	1.15	12.7	6.0
DES 56	20.9	3.26	1.21	12.0	6.0
DES 24	19.9	3.37	1.14	13.1	6.0
Rex 713	22.8	2.87	1.11	11.2	7.0
Acala SJ-5	21.8	3.54	•96	9.2	5.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	89.8	104.9	1.010	3.0	9.0
Deltapine 55	89.0	104.5	1.041	4.2	9.2
Stoneville 213	99.3	112.5	1.025	3.2	10.2
Coker 310	95.8	109.8	1.033	3.0	9.9
Paymaster 303	102.2	114.7	1.029	3.0	10.5
Stoneville 731N	92.5	107.3	1.039	3.5	9.6
Stoneville 256	92.9	107.6	1.010	7.2	9.4
DES 56	95.3	109.4	1.038	1.5	9.9
DES 24	97.9	111.4	1.019	3.8	9.9
Rex 713	105.9	117.4	1.019	3.5	10.8
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Table 19.--Delta test: Seed data for Rohwer, Ark.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.5	3.29	1.47	14.3	5.5
Deltapine 55	18.2	3.37	1.51	12.3	6.0
Stoneville 731N	16.9	3.51	1.81	12.2	5.5
DES 56	18.5	3.61	1.79	11.6	6.5
Coker 310	20.8	3.18	1.59	11.5	5.0
Stoneville 256	17.3	3.42	1.76	12.7	6.0
DES 24	18.3	3.61	1.93	11.0	5.0
Rex 713	19.0	3.73	1.51	8.9	7.0
Deltapine 61	18.4	3.34	1.55	11.7	6.0
Paymaster 303	19.9	3.63	1.04	11.4	6.0
Acala SJ-5	19.5	3.93	.86	11.2	5.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	108.6	119.4	0.999	2.8	10.8
Deltapine 55	95.1	109.3	1.028	1.5	9.7
Stoneville 731N	104.6	116.5	1.019	1.5	10.6
DES 56	101.8	114.4	1.034	1.5	10.5
Coker 310	101.8	114.3	1.084	2.0	11.0
Stoneville 256	98.4	111.8	1.004	5.1	9.8
DES 24	105.0	116.7	1.061	1.8	11.1
Rex 713	124.9	131.0	1.000	3.8	12.6
Deltapine 61	100.9	113.7	1.011	1.2	10.2
Paymaster 303	111.1	121.2	1.040	2.5	11.5
Acala SJ-5	111.7	121.6	1.069	1.0	11.9

Table 20.--Delta test: Seed data for Ridgely, Tenn.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 256	18.0	3.23	1.26	14.8	6.0
Stoneville 213	17.4	3.21	1.08	15.7	5.0
Stoneville 731N	17.8	3.12	1.17	14.8	6.0
Coker 310	20.2	3.21	1.12	14.4	5.5
DES 56	17.7	3.36	1.14	13.3	6.0
Deltapine 61	18.2	3.24	1.29	13.2	6.0
DES 24	18.4	3.36	1.29	10.0	6.0
Deltapine 55	17.6	3.27	1.19	14.3	6.0
Rex 713	20.4	3.19	1.26	12.5	7.0
Paymaster 303	20.1	3.30	• 90	14.3	5.0
Acala SJ-5	20.1	3.61	.78	10.7	6.0
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³ )	surface area (mm ² )	density (g/cm ³ )	(percent)	delinted- seed index
Stoneville 256	97.9	111.4	0.978	3.8	9.5
Stoneville 213	97.7	111.3	•974	2.0	9.5
Stoneville 731N	95.9	109.9	•977	5.2	9.3
Coker 310	97.9	111.4	1.021	1.8	10.0
DES 56	100.2	113.2	•960	4.5	9.6
Deltapine 61	95.5	109.6	.989	4.8	9.4
DES 24	102.9	115.2	1.006	2.0	10.3
Deltapine 55	89.2	104.8	.991	1.5	8.8
					11.1
	113.4	1 22 . 9	. 483	4./	
Rex 713	113.4 110.6	122.9 120.8	.983 .978	4.2 6.5	10.8

## CENTRAL REGIONAL COTTON VARIETY TEST

Table 21.--Central test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220 Stoneville 256  Stoneville 731N  Deltapine 16  Stoneville 213  Coker 310  Paymaster 303  Acala SJ-5	17.8 b 16.8 cd 17.2 c 16.6 cd 18.6 a 16.4 d 17.9 b 18.4 ab 18.1 ab	3.56 b 3.50 bc 3.41 c 3.50 bc 3.38 c 3.44 bc 3.57 b 3.49 bc 3.75 a	0.91 cd 1.03 b 1.17 a 1.01 b .96 bc 1.02 b .87 cd .85 de .76 e	14.6 bcd 15.7 abcd 12.7 d 17.4 ab 14.9 abcd 18.1 a 16.1 abc 14.8 abcd 14.0 cd	6.9 a 5.5 d 6.4 b 5.6 cd 6.1 bc 5.5 d 5.9 bcd 6.0 bcd 5.8 cd
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 220 Stoneville 256 Deltapine 55 Stoneville 731N Deltapine 16 Stoneville 213 Coker 310 Paymaster 303 Acala SJ-5	89.8 bc 88.1 bcd 82.5 d 86.4 cd 89.6 bc 84.1 cd 85.6 cd 96.0 a 93.0 ab	105.1 bc 103.8 bcd 99.3 d 102.2 cd 104.4 bc 100.5 cd 101.8 cd 109.8 a 107.5 ab	1.004 b 1.005 b 1.023 b 1.012 b 1.028 b 1.026 b 1.058 a 1.011 b 1.017 b	2.7 cd 3.6 c 1.8 d 2.6 cd 1.5 d 2.9 cd 2.2 d 6.7 b 8.6 a	9.0 bcd 8.8 cde 8.4 d 8.7 cde 9.2 abc 8.6 de 9.0 bcd 9.7 a 9.5 ab

Table 22.--Central test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
College Station,					
Tex	17.3 bc	3.57 b	1.04 a	17.4 a	5.9 Ъ
Nueces County, Tex.	18.0 a	3.04 c	.94 bc	17.8 a	5.5 c
Weslaco, Tex	17.1 c	3.50 b	.88 c	16.9 a	5.2 c
Bossier City, La	17.6 ab	3.92 a	.94 b	9.2 Ъ	7.1 a
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
College Station,					
Tex	88.9 Ъ	104.4 Ъ	1.014 в	3.7 b	9.0 b
Nueces County, Tex.	77.8 c	95.4 c	1.046 a	2.1 d	8.1 c
Weslaco, Tex	92.5 a	107.0 ab	.998 c	5.9 a	9.2 b
Bossier City, La	94.0 a	108.3 a	1.022 b	2.8 c	9.6 a

Table 23.--Central test: Seed data for College Station, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 55	17.1	3.39	1.35	17.2	6.5
McNair 220	17.8	3.55	1.00	17.2	7.0
Stoneville 731N	16.3	3.61	1.01	19.0	5.5
Stoneville 256	16.5	3.57	1.20	18.9	5.0
Coker 310	18.1	3.47	• 98	16.6	6.0
Stoneville 213	16.3	3.60	1.14	17.5	5.5
Paymaster 303	18.0	3.59	• 94	17.3	6.0
Deltapine 16	17.5	3.44	1.00	17.6	6.0
Acala SJ-5	18.1	3.93	•73	15.6	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Deltapine 55	87.0	102.9	1.017	3.8	8.8
McNair 220	91.8	106.8	•992	2.5	9.1
Stoneville 731N	83.7	100.3	1.014	4.5	8.5
Stoneville 256	88.0	103.7	1.016	4.0	8.9
Coker 310	85.5	101.8	1.040	4.0	8.9
Stoneville 213	87.9	103.7	1.003	5.5	8.8
Paymaster 303	97.7	111.2	1.009	4.0	9.8
Deltapine 16	89.5	105.0	1.015	3.0	9.1
Acala SJ-5	88.8	104.3	1.020	2.2	9.0

Table 24.--Central test: Seed data for Nueces County, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 256	17.5	3.09	1.02	16.8	5.0
McNair 220	18.6	2.92	•89	17.6	6.5
Deltapine 16	19.4	2.87	1.02	16.9	6.0
Coker 310	17.5	3.00	•77	18.7	5.5
Stoneville 731N	17.1	3.07	1.06	23.5	5.0
Paymaster 303	18.7	2.97	•94	15.4	5.5
Deltapine 55	17.8	3.03	1.11	12.9	6.0
Stoneville 213	17.0	3.05	.98	22.7	5.0
Acala SJ-5					
Acara SU-J	. 18.2 3.38 .67 16.1	5.0			
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 256	83.1	99.9	1.015	2.4	8.4
McNair 220	77.8	95.5	1.022	1.3	7.9
Deltapine 16	83.8	100.5	1.044	0.6	8.7
Coker 310	74.5	92.9	1.079	0.8	8.0
Stoneville 731N	69.1	88.2	1.055	0.0	7.3
Paymaster 303	84.2	100.7	1.027	6.7	8.6
Deltapine 55	78.0	95.5	1.027	0.0	8.0
Stoneville 213	67.1	86.6	1.102	2.0	7.3
Acala SJ-5	82.7	99.5	1.040	4.8	8.6

Table 25.--Central test: Seed data for Weslaco, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	17.2	3.57	0.84	16.7	6.0
Deltapine 55	16.3	3.50	•97	12.2	5.5
Stoneville 731N	16.6	3.49	1.04	17.4	5.0
Stoneville 256	16.2	3.50	•91	18.7	5.0
Stoneville 213	15.9	3.37	•96	19.7	4.5
Coker 310	18.2	3.66	•89	17.8	5.0
Deltapine 16	18.4	3.46	•84	17.5	5.5
Paymaster 303	18.3	3.45	•75	15.7	5.5
Acala SJ-5	17.0	3.65	•73	16.2	5.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 220	96.7	110.5	0.981	3.0	9.5
Deltapine 55	84.3	100.9	1.018	2.5	8.6
Stoneville 731N	90.9	106.0	•996	3.0	9.0
Stoneville 256	87.6	103.4	•989	5.2	8.6
Stoneville 213	91.7	106.6	•998	3.8	9.1
Coker 310	90.8	106.0	1.048	2.0	9.5
Deltapine 16	90.2	103.0	1.021	1.5	9.2
Paymaster 303	105.3	117.0	.994	6.0	10.4
Acala SJ-5	95.5	109.6	•941	25.8	8.9

Table 26.--Central test: Seed data for Bossier City, La.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 55	17.4	3.71	1.24	8.2	7.5
Stoneville 256	16.9	3.82	•98	8.4	7.0
Stoneville 213	16.5	3.75	1.00	12.1	7.0
Deltapine 16	18.8	3.74	•97	7.5	7.0
Stoneville 731N	16.3	3.79	• 92	9.6	7.0
McNair 220	17.7	4.21	.89	7.0	8.0
Paymaster 303	18.6	3.93	.76	10.6	7.0
Acala SJ-5	19.1	4.16	•92	8.1	7.0
Coker 310	17.6	4.14	.85	11.0	7.0
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³ )	surface area (mm²)	density (g/cm ³ )	(percent)	delinted- seed index
Deltapine 55	80.7	97.9	1.029	1.0	8.3
Stoneville 256	93.8	108.1	•998	2.8	9.3
Stoneville 213	89.6	105.0	•998	0.5	8.9
Deltapine 16	94.9	109.2	1.032	1.0	9.8
Stoneville 731N	101.7	114.3	•982	2.8	9.9
McNair 220	92.8	107.5	1.021	4.0	9.4
Paymaster 303	96.6	110.3	1.013	10.0	9.7
Acala SJ-5	104.7	116.5	1.067	1.5	11.1
Coker 310	91.5	106.4	1.064	2.0	9.7

## PLAINS REGIONAL COTTON VARIETY TEST

Table 27.--Plains test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lockett 77	18.5 fg	3.49 fghi	0.70 fgh	13.7 cde	6.1 fgh
Tamcot Sp 21S	18.9 ef	3.66 ab	.70 fgh	11.6 hij	7.0 d
Westburn M	19.5 abcde	3.69 a	.83 cd	11.0 jk	7.5 b
Stoneville 213	17.2 i	3.41 ij	.97 a	17.2 a	5.4 j
Coker 5110	18.9 ef	3.47 ghi	.92 ab	14.4 bcd	6.0 gh
PR 68	19.2 cdef	3.61 abcde	.74 efg	13.1 def	6.8 de
Tamcot 788	19.9 ab	3.59 bcde	.72 efg	13.2 defg	6.8 de
Paymaster 303	19.4 bcde	3.52 efgh	.79 cde	14.2 bcd	6.2 fg
Deltapine SR-2	19.7 abcd	3.64 abcd	.74 efg	9.9 k	7.9 a
Paymaster 785	19.1 def	3.54 defg	.70 fgh	12.0 ghij	6.7 e
GSA 71	19.6 abcd	3.55 cdefg	.86 bc	12.1 fghij	7.7 a
Coker 310	18.9 ef	3.61 abcde	.83 cd	14.8 bc	6.0 h
Lankart LX 571	17.9 h	3.59 abcde	•65 h	12.6 efgh	7.2 c
Western 44	19.8 abc	3.65 ab	.75 def	11.1 ij	7.2 c
Paymaster 266	19.1 cdef	3.37 j	.77 def	13.6 cde	6.2 fg
Dunn 119	18.0 gh	3.45 hij	.71 fgh	15.1 b	5.7 i
Stripper 31A	20.2 a	3.57 bcdef	•94 a	12.3 fghi	7.3 bc
Acala SJ-5	19.9 ab	3.64 abc	.67 h	11.9 hij	6.3 f
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
		111.6 def	1.026 bc	6.2 abc	10.1 cd
Lockett 77	98.2 defg	III. O GET	1.020 DC		
Lockett 77 Tamcot Sp 21S	98.2 defg 101.0 cde	113.8 cde	1.011 c	6.6 abc	10.1 cd
Tamcot Sp 21S	•				10.1 cd 10.5 c
	101.0 cde	113.8 cde	1.011 c	6.6 abc	
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110	101.0 cde 101.7 cde	113.8 cde 114.2 cde	1.011 c 1.032 abc	6.6 abc 4.0 c	10.5 c
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110	101.0 cde 101.7 cde 89.7 h	113.8 cde 114.2 cde 105.0 h	1.011 c 1.032 abc 1.006 c	6.6 abc 4.0 c 6.9 abc	10.5 c 9.0 e
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110	101.0 cde 101.7 cde 89.7 h 94.5 fgh	113.8 cde 114.2 cde 105.0 h 108.7 fgh	1.011 c 1.032 abc 1.006 c 1.035 abc	6.6 abc 4.0 c 6.9 abc 6.2 abc	10.5 c 9.0 e 9.8 d
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110 PR 68 Tamcot 788 Paymaster 303	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc	10.5 c 9.0 e 9.8 d 10.1 cd
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110 PR 68 Tamcot 788 Paymaster 303	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110 PR 68 Tamcot 788 Paymaster 303	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab 1.013 c	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc 5.7 abc	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd 10.2 cd
Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  GSA 71	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde 99.5 cdef 104.2 c 111.9 b	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde 112.7 cdef	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab 1.013 c 1.016 bc 1.009 c 1.005 c	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc 5.7 abc 6.6 abc	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd 10.2 cd 10.1 cd
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110 PR 68 Tamcot 788 Paymaster 303 Deltapine SR-2 Paymaster 785 GSA 71 Coker 310	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde 99.5 cdef 104.2 c	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde 112.7 cdef 116.1 c	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab 1.013 c 1.016 bc 1.009 c	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc 5.7 abc 6.6 abc 6.2 abc	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd 10.2 cd 10.1 cd 10.5 c
Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  GSA 71  Coker 310  Lankart LX 571	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde 99.5 cdef 104.2 c 111.9 b 93.2 gh 119.6 a	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde 112.7 cdef 116.1 c 121.7 b	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab 1.013 c 1.016 bc 1.009 c 1.005 c	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc 5.7 abc 6.6 abc 6.2 abc 5.9 abc	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd 10.2 cd 10.1 cd 10.5 c 11.1 b
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110 PR 68 Tamcot 788 Paymaster 303 Deltapine SR-2 Paymaster 785 GSA 71 Coker 310	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde 99.5 cdef 104.2 c 111.9 b 93.2 gh 119.6 a 99.9 cde	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde 112.7 cdef 116.1 c 121.7 b 107.7 gh	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab 1.013 c 1.016 bc 1.009 c 1.005 c 1.047 ab .970 d 1.060 a	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc 5.7 abc 6.6 abc 6.2 abc 5.9 abc 4.5 c	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd 10.2 cd 10.1 cd 10.5 c 11.1 b 9.7 d
Tamcot Sp 21S Westburn M Stoneville 213 Coker 5110 PR 68 Tamcot 788 Paymaster 303 Deltapine SR-2 Paymaster 785 GSA 71 Coker 310 Lankart LX 571	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde 99.5 cdef 104.2 c 111.9 b 93.2 gh 119.6 a	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde 112.7 cdef 116.1 c 121.7 b 107.7 gh 127.3 a	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab 1.013 c 1.016 bc 1.009 c 1.005 c 1.047 ab .970 d	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc 5.7 abc 6.6 abc 6.2 abc 5.9 abc 4.5 c 7.9 a	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd 10.2 cd 10.1 cd 10.5 c 11.1 b 9.7 d 11.6 a
Tamcot Sp 21S  Westburn M Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  GSA 71  Coker 310  Lankart LX 571  Western 44	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde 99.5 cdef 104.2 c 111.9 b 93.2 gh 119.6 a 99.9 cde	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde 112.7 cdef 116.1 c 121.7 b 107.7 gh 127.3 a 112.7 cdef	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab 1.013 c 1.016 bc 1.009 c 1.005 c 1.047 ab .970 d 1.060 a	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc 5.7 abc 6.6 abc 6.2 abc 5.9 abc 4.5 c 7.9 a 4.3 c	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd 10.2 cd 10.1 cd 10.5 c 11.1 b 9.7 d 11.6 a 10.5 c
Tamcot Sp 21S  Westburn M  Stoneville 213  Coker 5110  PR 68  Tamcot 788  Paymaster 303  Deltapine SR-2  Paymaster 785  GSA 71  Coker 310  Lankart LX 571  Western 44  Paymaster 266	101.0 cde 101.7 cde 89.7 h 94.5 fgh 99.7 cdef 96.2 efg 101.2 cde 99.5 cdef 104.2 c 111.9 b 93.2 gh 119.6 a 99.9 cde 101.5 cde	113.8 cde 114.2 cde 105.0 h 108.7 fgh 112.6 cdef 110.1 efg 113.9 cde 112.7 cdef 116.1 c 121.7 b 107.7 gh 127.3 a 112.7 cdef 114.1 cde	1.011 c 1.032 abc 1.006 c 1.035 abc 1.018 bc 1.046 ab 1.013 c 1.016 bc 1.009 c 1.005 c 1.047 ab .970 d 1.060 a 1.022 bc .972 d	6.6 abc 4.0 c 6.9 abc 6.2 abc 6.0 abc 4.7 bc 5.7 abc 6.6 abc 6.2 abc 5.9 abc 4.5 c 7.9 a 4.3 c 5.9 abc	10.5 c 9.0 e 9.8 d 10.1 cd 10.0 cd 10.2 cd 10.1 cd 10.5 c 11.1 b 9.7 d 11.6 a 10.5 c 10.3 c

Table 28.--Plains test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lubbock (Irr), Tex.	20.5 a 18.7 c	3.34 e 3.75 b	0.86 a .83 a	12.5 b 10.7 c	6.4 d 6.8 b
Halfway, Tex Chickasha (Irr),	10.7 C	3.73 D	.03 a	10.7 C	0.8 D
Okla	18.9 bc	3.81 a	.69 c	13.4 a	7.1 a
Tex	18.6 c	3.47 d	.69 c	13.9 a	6.5 d
Tex	18.6 c	3.65 c	.74 ъ	13.6 a	6.7 c
Altus, Okla	19.2 b	3.32 e	.84 a	13.8 a	6.5 d
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Lubbock (Irr), Tex.	107.2 a	118.2 a	1.014 b	2.3 d	10.8 a
Halfway, Tex Chickasha (Irr),	101.8 b	114.5 b	1.016 b	4.0 c	10.3 b
Okla	99.3 b	112.4 b	1.035 a	6.3 b	10.2 bc
Tex	95.3 c	109.1 c	1.034 a	3.2 cd	9.8 d
Tex	106.4 a	117 <b>.</b> 7 a	1.035 a	3.2 cd	11.0 a
Altus, Okla	102.1 b	114.4 b	.979 c	16.0 a	10.0 cd

Table 29.--Plains test: Combined seed data for Halfway and Lubbock, Tex., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lockett 77	18.7	3.47	0.78	12.7	6.0
Paymaster 785	20.1	3.52	.77	11.1	6.5
Paymaster 303	20.3	3.51	.88	12.8	6.5
Tamcot 788	19.4	3.57	.76	11.5	6.8
Tamcot Sp 21S	20.1	3.71	.78	11.5	6.8
PR 68	19.4	3.60	.79	12.3	6.5
GSA 71	20.3	3.59	• 95	9.7	8.5
Coker 310	19.4	3.65	•83	13.6	6.0
Stripper 31A	20.6	3.57	1.07	10.6	7.5
Westburn M	19.9	3.68	•92	9.6	7.5
Paymaster 266	19.9	3.25	• 86	12.5	6.0
Coker 5110	19.4	3.48	• 98	13.2	6.3
Deltapine SR-2	19.8	3.63	•77	8.3	8.0
Stoneville 213	17.1	3.45	1.13	16.6	5.0
Lankart LX 571	18.3	3.59	•73	11.0	7.5
Ounn 119	19.0	3.44	.77	13.9	5.3
Western 44	20.6	3.59	•85	9.2	7.3
Acala SJ-5	20.4	3.69	•72	10.2	6.0
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³ )	surface area (mm ² )	density (g/cm ³ )	(percent)	delinted- seed index
Lockett 77	97.9	111.4	1.027	2.4	10.1
Paymaster 785	106.6	117.8	1.018	2.5	10.9
Paymaster 303	105.2	116.9	1.009	2.5	10.6
Tamcot 788	99.0	112.3	1.049	2.1	10.4
Tamcot Sp 21S	109.0	120.1	1.013	4.5	11.0
				7.0	
•				2.8	10 6
PR 68	105.7	117.3	1.002	2.8	10.6
PR 68	105.7 119.4	117.3 127.2	1.002 .982	4.1	11.7
PR 68	105.7 119.4 92.7	117.3 127.2 107.4	1.002 .982 1.044	4.1 0.9	11.7 9.7
PR 68	105.7 119.4 92.7 110.0	117.3 127.2 107.4 113.7	1.002 .982 1.044 .992	4.1 0.9 4.6	11.7 9.7 10.0
PR 68	105.7 119.4 92.7 110.0 104.4	117.3 127.2 107.4 113.7 116.3	1.002 .982 1.044 .992 1.018	4.1 0.9 4.6 3.0	11.7 9.7 10.0 10.6
PR 68	105.7 119.4 92.7 110.0 104.4 104.4	117.3 127.2 107.4 113.7 116.3	1.002 .982 1.044 .992 1.018 1.029	4.1 0.9 4.6 3.0 3.4	11.7 9.7 10.0 10.6 10.8
PR 68	105.7 119.4 92.7 110.0 104.4 104.4 95.7	117.3 127.2 107.4 113.7 116.3 116.3	1.002 .982 1.044 .992 1.018 1.029 1.027	4.1 0.9 4.6 3.0 3.4 2.2	11.7 9.7 10.0 10.6 10.8 9.8
PR 68	105.7 119.4 92.7 110.0 104.4 104.4 95.7 101.2	117.3 127.2 107.4 113.7 116.3 116.3 109.8 113.9	1.002 .982 1.044 .992 1.018 1.029 1.027 1.000	4.1 0.9 4.6 3.0 3.4 2.2 5.6	11.7 9.7 10.0 10.6 10.8 9.8 10.1
PR 68	105.7 119.4 92.7 110.0 104.4 104.4 95.7 101.2 91.9	117.3 127.2 107.4 113.7 116.3 116.3 109.8 113.9 106.8	1.002 .982 1.044 .992 1.018 1.029 1.027 1.000	4.1 0.9 4.6 3.0 3.4 2.2 5.6 2.8	11.7 9.7 10.0 10.6 10.8 9.8 10.1 9.2
PR 68	105.7 119.4 92.7 110.0 104.4 104.4 95.7 101.2 91.9 122.5	117.3 127.2 107.4 113.7 116.3 116.3 109.8 113.9 106.8 129.4	1.002 .982 1.044 .992 1.018 1.029 1.027 1.000 1.001	4.1 0.9 4.6 3.0 3.4 2.2 5.6 2.8 6.0	11.7 9.7 10.0 10.6 10.8 9.8 10.1 9.2 11.7
PR 68  GSA 71  Coker 310  Stripper 31A  Westburn M  Paymaster 266  Coker 5110  Deltapine SR-2  Stoneville 213  Lankart LX 571  Dunn 119	105.7 119.4 92.7 110.0 104.4 104.4 95.7 101.2 91.9 122.5 126.6	117.3 127.2 107.4 113.7 116.3 116.3 109.8 113.9 106.8 129.4 133.9	1.002 .982 1.044 .992 1.018 1.029 1.027 1.000 1.001 .958	4.1 0.9 4.6 3.0 3.4 2.2 5.6 2.8 6.0 4.0	11.7 9.7 10.0 10.6 10.8 9.8 10.1 9.2 11.7 12.7
PR 68	105.7 119.4 92.7 110.0 104.4 104.4 95.7 101.2 91.9 122.5	117.3 127.2 107.4 113.7 116.3 116.3 109.8 113.9 106.8 129.4	1.002 .982 1.044 .992 1.018 1.029 1.027 1.000 1.001	4.1 0.9 4.6 3.0 3.4 2.2 5.6 2.8 6.0	11.7 9.7 10.0 10.6 10.8 9.8 10.1 9.2 11.7

Table 30.--Plains test: Combined seed data for Chillicothe, Tex. (irrigated and dryland), and Chickasha and Altus, Okla., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Westburn M	19.4	3.70	0.79	11.8	7.5
Stoneville 213	17.3	3.40	•90	17.6	5.6
Tamcot Sp 21S	18.3	3.65	.67	11.7	7.1
Lockett 77	18.5	3.50	•67 [′]	14.3	6.3
Coker 5110	18.7	3.48	. 88	15.0	6.0
PR 68	19.1	3.62	.71	13.9	7.0
Deltapine SR-2	19.8	3.65	.74	10.9	7.9
Tamcot 788	19.7	3.60	.70	14.1	6.9
Paymaster 303	19.0	3.54	.75	15.0	6.1
Western 44	19.5	3.69	.71	12.2	7.3
Lankart LX 571	17.7	3.60	.62	13.5	7.1
GSA 71	19.3	3.54	.82	13.4	7.4
Coker 310	18.7	3.60	.83	15.4	6.0
Paymaster 266	18.8	3.44	•79	14.2	6.4
Paymaster 785	18.6	3.56	.67	12.6	6.9
Dunn 119	17.6	3.46	.68	15.7	6.0
Stripper 31A	20.0	3.58	.89	13.2	7.0
Acala SJ-5	19.7	3.63	•65	12.8	6.5
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Westburn M	100.4	113.1	1.039	4.4	10.5
Stoneville 213	86.1	104.1	1.009	9.0	9.0
	97.1	110.7	1.010	7.6	9.7
Tamcot Sp 21S Lockett 77	98.5	111.7	1.010	8.2	10.1
Coker 5110	93.9	108.2	1.041	8.2	9.8
PR 68	96.7	110.3	1.027	7.6	9.9
Deltapine SR-2	98.7	112.1	1.024	7.1	10.2
Tamcot 788	94.9	109.0	1.046	5.9	9.9
Paymaster 303	99.3	112.4	1.045	7.2	10.1
Western 44	109.4	114.8	1.035	5.4	10.6
Lankart LX 571	118.3	126.2	.977	8.9	11.6
			1.017	6.8	10.9
GSA 71	108.3 93.5	119.0 107.9	1.049	6.3	9.8
Coker 310				7.2	10.2
Paymaster 266	100.1	113.0	1.019		
Paymaster 785	103.1	115.3	1.005	8.1	10.4
Dunn 119	116.7	124.9	.968	9.8	11.3
	102 0	11/	1 050	/1 ()	
Stripper 31A Acala SJ-5	102.0 102.0	114.5 114.4	1.050 1.025	4.0 7.6	10.7 10.5

Table 31.--Plains test: Seed data for Lubbock, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lockett 77	20.1	3.34	0.80	13.3	6.0
Tamcot 788	21.6	3.33	.76	12.0	6.5
Paymaster 303	20.7	3.35	1.06	13.4	6.5
Tamcot Sp 21S	20.6	3.49	.70	12.7	6.5
PR 68	20.5	3.36	.78	13.5	6.0
Coker 310	20.0	3.40	•95	14.2	6.0
Coker 5110	20.3	3.13	1.03	14.9	6.0
Paymaster 785	20.7	3.31	.72	12.0	6.0
GSA 71	20.4	3.45	.85	10.4	8.0
Lankart LX 571	18.5	3.39	.67	12.2	7.0
Stoneville 213	18.5	3.27	1.19	16.7	5.0
Stripper 31A	21.5	3.47	1.07	11.4	7.0
Dunn 119	19.8	3.23	.79	15.3	4.5
Deltapine SR-2	21.4	3.38	.79	9.3	8.0
Westburn M	21.1	3.40	<b>.</b> 90	11.1	7.0
Western 44	21.5	3.43	.81	9.8	7.5
Paymaster 266	20.9	2.95	.88	13.2	6.0
Acala SJ-5	21.3	3.55	.80	10.4	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Lockett 77	101.6	114.2	1.034	1.2	10.5
Tamcot 788	100.8	113.6	1.064	0.5	10.7
		117.3	1.000	2.8	10.5
Paymaster 303	100./	11/07	1 • 000		1000
Paymaster 303 Tamcot Sp 21S	105.7 115.8				
Tamcot Sp 21S	115.8	124.4	1.019	3.5	11.7
Tamcot Sp 21S PR 68			1.019 1.008	3.5 3.2	11.7 10.7
Tamcot Sp 21S PR 68 Coker 310	115.8 106.9 93.9	124.4 118.1 108.4	1.019 1.008 1.045	3.5 3.2 0.5	11.7 10.7 9.8
Tamcot Sp 21S PR 68 Coker 310 Coker 5110	115.8 106.9	124.4 118.1	1.019 1.008	3.5 3.2	11.7 10.7 9.8 10.0
Tamcot Sp 21S PR 68 Coker 310	115.8 106.9 93.9 98.1 110.5	124.4 118.1 108.4 111.6	1.019 1.008 1.045 1.026	3.5 3.2 0.5 1.5	11.7 10.7 9.8 10.0 11.2
Tamcot Sp 21S PR 68 Coker 310 Coker 5110 Paymaster 785 GSA 71	115.8 106.9 93.9 98.1 110.5 121.6	124.4 118.1 108.4 111.6 120.8 128.8	1.019 1.008 1.045 1.026 1.020	3.5 3.2 0.5 1.5 1.2 4.8	11.7 10.7 9.8 10.0 11.2 11.8
Tamcot Sp 21S PR 68 Coker 310 Coker 5110 Paymaster 785 GSA 71	115.8 106.9 93.9 98.1 110.5	124.4 118.1 108.4 111.6 120.8	1.019 1.008 1.045 1.026 1.020	3.5 3.2 0.5 1.5	11.7 10.7 9.8 10.0 11.2
Tamcot Sp 21S  PR 68  Coker 310  Coker 5110  Paymaster 785  GSA 71  Lankart LX 571  Stoneville 213	115.8 106.9 93.9 98.1 110.5 121.6 121.8	124.4 118.1 108.4 111.6 120.8 128.8 128.9	1.019 1.008 1.045 1.026 1.020 .975	3.5 3.2 0.5 1.5 1.2 4.8	11.7 10.7 9.8 10.0 11.2 11.8
Tamcot Sp 21S  PR 68  Coker 310  Coker 5110  Paymaster 785  GSA 71  Lankart LX 571  Stoneville 213  Stripper 31A	115.8 106.9 93.9 98.1 110.5 121.6 121.8 91.4	124.4 118.1 108.4 111.6 120.8 128.8 128.9 106.4 116.8	1.019 1.008 1.045 1.026 1.020 .975 .958 1.009	3.5 3.2 0.5 1.5 1.2 4.8 4.8	11.7 10.7 9.8 10.0 11.2 11.8 11.6 9.2 10.4
Tamcot Sp 21S PR 68 Coker 310 Coker 5110 Paymaster 785 GSA 71 Lankart LX 571 Stoneville 213 Stripper 31A Dunn 119	115.8 106.9 93.9 98.1 110.5 121.6 121.8 91.4 105.1 134.9	124.4 118.1 108.4 111.6 120.8 128.8 128.9 106.4 116.8 138.0	1.019 1.008 1.045 1.026 1.020 .975 .958 1.009 .989	3.5 3.2 0.5 1.5 1.2 4.8 4.8 1.8 2.8 1.5	11.7 10.7 9.8 10.0 11.2 11.8 11.6 9.2 10.4 13.3
Tamcot Sp 21S  PR 68  Coker 310  Coker 5110  Paymaster 785  GSA 71  Lankart LX 571  Stoneville 213  Stripper 31A  Dunn 119  Deltapine SR-2	115.8 106.9 93.9 98.1 110.5 121.6 121.8 91.4 105.1	124.4 118.1 108.4 111.6 120.8 128.8 128.9 106.4 116.8	1.019 1.008 1.045 1.026 1.020 .975 .958 1.009 .989	3.5 3.2 0.5 1.5 1.2 4.8 4.8 1.8 2.8	11.7 10.7 9.8 10.0 11.2 11.8 11.6 9.2 10.4 13.3 10.2
Tamcot Sp 21S  PR 68  Coker 310  Coker 5110  Paymaster 785  GSA 71  Lankart LX 571  Stoneville 213  Stripper 31A  Dunn 119  Deltapine SR-2  Westburn M	115.8 106.9 93.9 98.1 110.5 121.6 121.8 91.4 105.1 134.9 101.2 105.5	124.4 118.1 108.4 111.6 120.8 128.8 128.9 106.4 116.8 138.0 113.9 117.1	1.019 1.008 1.045 1.026 1.020 .975 .958 1.009 .989 .987 1.007	3.5 3.2 0.5 1.5 1.2 4.8 4.8 1.8 2.8 1.5 5.5	11.7 10.7 9.8 10.0 11.2 11.8 11.6 9.2 10.4 13.3 10.2 10.9
Tamcot Sp 21S  PR 68  Coker 310  Coker 5110  Paymaster 785  GSA 71  Lankart LX 571  Stoneville 213  Stripper 31A  Dunn 119  Deltapine SR-2	115.8 106.9 93.9 98.1 110.5 121.6 121.8 91.4 105.1 134.9 101.2	124.4 118.1 108.4 111.6 120.8 128.8 128.9 106.4 116.8 138.0 113.9	1.019 1.008 1.045 1.026 1.020 .975 .958 1.009 .989	3.5 3.2 0.5 1.5 1.2 4.8 4.8 1.8 2.8 1.5 5.5	11.7 10.7 9.8 10.0 11.2 11.8 11.6 9.2 10.4 13.3 10.2

Table 32.--Plains test: Seed data for Chickasha, Okla.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.4	3.43	0.90	17.5	5.5
Tamcot Sp 21S	18.2	3.49	•64	11.5	7.0
Westburn M	19.1	3.54	•67	12.3	7.0
Lockett 77	18.3	3.34	•58	15.5	6.0
Paymaster 303	18.6	3.53	.72	14.6	6.5
Coker 5110	18.6	3.34	•80	15.0	6.0
PR 68	19.0	3.49	•66	13.2	7.0
GSA 71	18.2	3.36	•65	13.9	6.5
Western 44	19.3	3.62	•62	12.6	7.0
Deltapine SR-2	19.1	3.61	.72	11.6	7.5
Dunn 119	17.6	3.34	•68	15.3	5.5
Tamcot 788	19.1	3.49	•66	13.4	6.5
Paymaster 785	18.2	3.55	• 58	14.4	6.5
Coker 310	19.0	3.50	.78	16.2	6.0
Lankart LX 571	17.6	3.45	•61	13.7	6.5
Paymaster 266	18.7	3.42	•66	13.4	6.5
Stripper 31A	19.0	3.53	•79	13.9	7.0
Acala SJ-5	19.9	3.52	•69	12.7	7.0
	Seed volume	Seed	Seed	Floaters	Acid-
	(mm ³ )	surface area (mm ² )	density (g/cm ³ )	(percent)	delinted- seed index
Stoneville 213	87.8	103.3	1.015	7.0	8.9
Tamcot Sp 21S	94.8	108.9	1.020	6.5	9.6
Westburn M	95.0	109.0	1.056	4.0	10.0
Lockett 77 ·····	95.2	109.1	1.035	9.5	9.8
Paymaster 303	93.8	108.2	1.027	5.8	9.6
Coker 5110	90.5	105.5	1.065	4.5	9.6
PR 68	78.1	95.8	1.042	7.0	8.1
GSA 71	102.1	114.2	1.015	4.5	10.3
Western 44	99.9	112.4	1.045	3.8	10.4
Deltapine SR-2	94.1	108.4	1.035	6.5	9.7
Dunn 119	101.5	113.4	.977	8.2	9.9
Tamcot 788	95.6	109.5	1.043	6.5	9.9
Paymaster 785	96.6	110.4	1.019	6.5	9.8
Coker 310	85.7	101.8	1.084	6.5	9.2
Lankart LX 571	113.3	122.5	.997	6.0	11.2
Paymaster 266	97.6	111.1	1.024	6.5	10.0
Stripper 31A	102.9	115.2	1.059	8.0	10.9
Acala SJ-5	91.2	106.3	1.060	6.2	9.6

Table 33.--Plains test: Seed data for Halfway, Tex.

3 9 4 5 4 8 8 7 2 2 1 7 6 3 6 4 1 0	3.59 3.54 3.73 3.94 3.92 3.66 3.80 3.66 3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.62 3.62 3.62 3.64  Seed surface area (mm²)	0.76 .82 .80 .93 .84 .70 .76 1.06 1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	12.0 11.8 10.1 8.1 10.2 12.2 11.0 9.6 8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3  Floaters (percent)	6.0 6.0 7.0 8.0 7.0 6.5 7.0 8.0 9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
4 5 4 8 8 7 2 2 1 7 6 3 6 4 1 0	3.73 3.94 3.92 3.66 3.80 3.66 3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.62 3.82 3.77 3.64	.80 .93 .84 .70 .76 1.06 1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	10.1 8.1 10.2 12.2 11.0 9.6 8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	7.0 8.0 7.0 6.5 7.0 8.0 9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0
5 4 8 8 7 2 2 1 7 6 3 6 4 1 0	3.94 3.92 3.66 3.80 3.66 3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.82 3.62 3.62 3.64	.93 .84 .70 .76 1.06 1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	8.1 10.2 12.2 11.0 9.6 8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	8.0 7.0 6.5 7.0 8.0 9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
4 8 8 7 2 2 1 7 6 3 6 4 1 0	3.92 3.66 3.80 3.66 3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.62 3.62 3.77 3.64	.84 .70 .76 1.06 1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	10.2 12.2 11.0 9.6 8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	7.0 6.5 7.0 8.0 9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
8 7 2 2 1 7 6 3 6 4 1 0	3.66 3.80 3.66 3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.82 3.62 3.82 3.77 3.64	.70 .76 1.06 1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	12.2 11.0 9.6 8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	6.5 7.0 8.0 9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
8 7 2 2 1 7 6 3 6 4 1 0 d ume	3.80 3.66 3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.62 3.77 3.64	.76 1.06 1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	11.0 9.6 8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	7.0 8.0 9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
8 7 2 2 1 7 6 3 6 4 1 0 d ume	3.80 3.66 3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.62 3.77 3.64	1.06 1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	9.6 8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	7.0 8.0 9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
7 2 2 1 7 6 3 6 4 1 0	3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.82 3.77 3.64	1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
2 2 1 7 6 3 6 4 1 0	3.72 3.82 3.87 3.89 3.73 3.82 3.62 3.82 3.77 3.64	1.05 .80 .74 .71 .89 .93 1.06 .63 .78 .75	8.9 10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	9.0 7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
2 1 7 6 3 6 4 1 0	3.82 3.87 3.89 3.73 3.82 3.62 3.82 3.77 3.64 Seed surface	.80 .74 .71 .89 .93 1.06 .63 .78 .75	10.9 7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	7.0 8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
1 7 6 3 6 4 1 0	3.87 3.89 3.73 3.82 3.62 3.82 3.77 3.64	.74 .71 .89 .93 1.06 .63 .78 .75	7.1 13.0 8.5 11.5 16.3 9.9 9.7 12.3	8.0 6.0 7.0 6.5 5.0 6.0 8.0 6.0
7 6 3 6 4 1 0 d ume	3.89 3.73 3.82 3.62 3.82 3.77 3.64 Seed surface	.71 .89 .93 1.06 .63 .78 .75	13.0 8.5 11.5 16.3 9.9 9.7 12.3	6.0 7.0 6.5 5.0 6.0 8.0 6.0
6 3 6 4 1 0 d ume	3.73 3.82 3.62 3.82 3.77 3.64 Seed surface	.89 .93 1.06 .63 .78 .75	8.5 11.5 16.3 9.9 9.7 12.3	7.0 6.5 5.0 6.0 8.0 6.0
3 6 4 1 0 d ume	3.82 3.62 3.82 3.77 3.64 Seed surface	.93 1.06 .63 .78 .75	11.5 16.3 9.9 9.7 12.3	6.5 5.0 6.0 8.0 6.0
6 4 1 0 d ume	3.62 3.82 3.77 3.64 Seed surface	1.06 .63 .78 .75 Seed density	16.3 9.9 9.7 12.3	5.0 6.0 8.0 6.0
4 1 0 d ume	3.82 3.77 3.64 Seed surface	.63 .78 .75 Seed density	9.9 9.7 12.3 Floaters	6.0 8.0 6.0
1 0 d ume	3.77 3.64 Seed surface	.78 .75 Seed density	9.7 12.3 Floaters	8.0 6.0 Acid-
0 d ume	3.64 Seed surface	.75 Seed density	12.3 Floaters	6.0 Acid-
d ume	Seed surface	Seed density	Floaters	Acid-
ume	surface	density		
^	_	A *	(percent)	delinted-
13)	area (mm²)			
	area (mm )	(g/cm ³ )		seed index
•0	108.5	1.019	3.5	9.6
. 4	114.8	1.031	4.5	10.5
. 5	114.8	1.015	3.8	10.4
.3	115.5	1.000	4.8	10.3
.1	115.8	1.007	5.5	10.2
.7	116.5	1.018	2.2	10.6
• 2	110.9	1.033	3.8	10.0
				9.6
				11.5
				10.4
				10.0
				9.5
				9.8
				9.5
				9.1
				10.6
				11.7
	127.0			12.0
	• 2 • 8 • 2 • 5 • 1 • 4 • 3 • 3 • 4 • 6 • 0 • 1	110.6 125.6 116.3 113.8 106.4 106.4 107.9 107.9 107.2 107.2 107.2 107.2	10.8       110.6       .995         125.6       .989         116.3       .995         113.8       .993         106.4       1.041         103       101.8         107.9       1.026         104       107.2         105.3       1.027         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         107.2       .993         108.1       .957          109.8       .957	10.8       110.6       .995       6.5         125.6       .989       3.5         116.3       .995       2.2         11       113.8       .993       5.8         14       106.4       1.041       1.2         13       101.8       1.186       3.0         13       107.9       1.026       3.0         14       107.2       .993       3.8         10       115.3       1.027       3.8

Table 34.--Plains test: Seed data for Chillicothe, Tex. (irrigated)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.7	3.59	0.88	18.0	6.0
Tamcot Sp 21S	18.1	3.91	• 59	11.7	8.0
Coker 5110	18.7	3.76	• 98	14.8	6.0
PR 68	19.4	3.83	.70	13.1	7.0
Lockett 77	18.8	3.82	•62	10.9	7.0
Paymaster 303	19.1	3.70	•60	15.2	6.0
Paymaster 785	18.6	3.66	•62	10.7	7.0
Deltapine SR-2	19.7	3.97	.69	10.3	8.0
Westburn M	19.7	3.98	.77	10.2	8.0
Lankart LX 571	17.6	3.76	•55	13.6	8.0
GSA 71	20.2	3.92	. 83	12.7	8.Ó
Western 44	19.7	4.04	•63	13.1	8.0
Paymaster 266	19.0	3.74	.67	13.8	7.0
Dunn 119	17.2	3.65	•60	17.0	6.5
Coker 310	18.5	3.87	• 70	15.6	6.0
Tamcot 788	19.3	3.83	•59	15.5	7.0
Acala SJ-5	19.8	3.89	• 59	12.8	7.0
Stripper 31A	20.2	3.81	•83	12.4	8.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	84.4	100.9	1.048	3.0	8.9
Tamcot Sp 21S	90.9	106.0	1.022	5.0	9.3
Coker 5110	91.9	106.8	1.078	2.8	9.9
PR 68	101.7	114.3	1.048	2.0	10.6
Lockett 77	94.7	109.0	1.036	1.8	9.8
Paymaster 303	92.9	107.6	1.036	4.8	9.6
Paymaster 785	104.2	116.2	.998	3.8	10.4
Deltapine SR-2	97.0	111.5	1.054	2.0	10.3
Westburn M	103.2	115.4	1.043	1.8	10.7
Lankart LX 571	119.8	127.4	•972	4.0	11.6
GSA 71	105.4	117.1	1.047	1.8	11.0
Western 44	103.5	115.6	1.047	2.0	10.8
Paymaster 266	99.3	112.5	1.013	2.5	10.0
Dunn 119	115.9	124.7	.963	10.1	11.1
	90.8		1.072	3.2	9.7
Coker 310		106.0	1.048	3.8	9.7
Tamcot 788	92.9	107.6		2.2	10.5
Acala SJ-5 Stripper 31A	101.5 97.7	114.1 111.3	1.041 1.052	1.2	10.3

Table 35.--Plains test: Seed data for Chillicothe, Tex. (dryland)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Westburn M	19.3	3.77	0.81	12.5	8.0
Stoneville 213	16.6	3.53	.72	16.5	6.0
Lockett 77	18.0	3.68	•64	14.8	6.0
Tamcot Sp 21S	18.0	3.83	•65	11.8	7.0
Coker 5110	18.8	3.67	.89	14.2	6.0
Deltapine SR-2	20.1	3.66	.83	10.1	8.0
PR 68	19.1	3.77	• 64	15.6	7.0
Lankart LX 571	17.6	3.63	•64	14.0	7.0
Western 44	19.2	3.73	.76	11.6	7.0
Coker 310	18.5	3.67	.88	14.8	6.0
Paymaster 303	18.2	3.53	•71	14.9	6.0
Tamcot 788	19.7	3.69	.73	13.9	7.0
Paymaster 266	18.9	3.39	.78	14.5	6.0
Dunn 119	16.7	3.53	•67	15.3	6.0
Paymaster 785	18.4	3.67	•65	13.9	7.0
GSA 71	19.1	3.67	.86	12.4	8.0
Stripper 31A	19.7	3.61	•96	13.5	7.0
Acala SJ-5	19.2	3.79	•61	11.6	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Westburn M	108.3	119.1	1.062	0.8	11.4
Stoneville 213	92.5	107.3	1.014	2.8	9.3
Lockett 77	99.4	112.6	1.047	4.0	10.4
Tamcot Sp 21S	99.4	112.4	1.026	4.5	10.1
Coker 5110	100.4	113.3	1.060	2.8	10.6
Deltapine SR-2	106.6	118.0	1.027	4.2	10.9
PR 68	105.3	116.9	1.052	1.2	10.8
Lankart LX 571	125.5	131.5	•989	1.8	12.4
Western 44	104.1	116.1	1.063	2.2	11.0
Coker 310	101.5	114.1	1.060	2.8	10.7
Paymaster 303	103.3	115.5	1.011	5.5	10.4
Tamcot 788	97.7	111.3	1.075	2.8	10.4
	102.7	115.0	1.049	5.2	10.7
Paymaster 266				7.0	12.2
•	126.2	131.9	• 90/	/ • U	
Dunn 119	126.2 109.9	131.9 120.4	.967 1.022		
Dunn 119 Paymaster 785	109.9	120.4	1.022	4.0	11.2
Paymaster 266  Dunn 119  Paymaster 785  GSA 71  Stripper 31A					

Table 36.--Plains test: Seed data for Altus, Okla.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Westburn M	19.2	3.50	0.91	11.1	7.0
Tamcot 788	20.0	3.39	.82	13.5	7.0
Tamcot Sp 21S	18.9	3.34	.78	11.5	6.5
Coker 5110	18.6	3.13	•85	15.7	6.0
Lockett 77	18.7	3.17	•85	15.8	6.0
Coker 310	18.7	3.34	•94	14.9	6.0
Lankart LX 571	18.0	3.53	•67	12.4	7.0
Paymaster 266	18.5	3.20	•80	15.0	6.0
Western 44	19.7	3.36	•83	11.1	7.0
Stoneville 213	17.3	3.05	1.08	18.4	5.0
GSA 71	19.4	3.29	• 94	14.2	7.0
Deltapine SR-2	20.0	3.37	.71	11.3	8.0
PR 68	18.9	3.40	.85	13.5	7.0
Dunn 119	19.0	3.32	•76	15.0	6.0
Paymaster 303	20.0	3.38	•96	15.0	6.0
Acala SJ-5	19.9	3.31	.70	13.8	6.0
Paymaster 785	18.9	3.35	.81	11.2	7.0
Stripper 31A	21.1	3.37	•94	13.0	7.0
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	(mm ³ )	area (mm ² )	(g/cm ³ )		seed index
Westburn M	94.8	108.9	0.995	11.2	9.7
Tamcot 788	93.2	107.8	1.016	10.8	9.5
Tamcot Sp 21S	103.2	115.3	.972	14.5	9.5
Coker 5110	92.8	107.4	•958	23.0	8.9
Lockett 77	104.5	116.2	•989	17.5	10.4
Coker 310	95.8	109.7	.979	12.8	9.4
Lankart LX 571	114.4	123.6	•946	23.8	10.8
Paymaster 266	100.7	113.5	.987	14.5	9.9
Western 44	103.1	115.3	•984	13.8	10.2
Stoneville 213	89.8	105.1	.948	23.2	8.5
GSA 71	111.7	121.6	.970	19.2	10.2
Deltapine SR-2	97.0	110.6	.979	15.8	9.8
PR 68	101.7	114.2	•965	20.0	9.8
Dunn 119	123.1	129.8	.963	13.8	11.8
Paymaster 303	107.2	118.2	.987	13.0	10.6
Acala SJ-5	101.6	114.1	.969	18.8	9.9
meata od J	101.7	114.2	.981	18.3	10.0
Parmactor 795			. / [ ]	1000	1000
Paymaster 785 Stripper 31A	102.1	114.6	1.034	5.0	10.5

## WESTERN REGIONAL COTTON VARIETY TEST

Table 37.--Western test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	20.4 bcd 18.8 e 20.3 bcd 19.9 d 20.2 cd 20.7 abc 21.0 ab 20.8 abc 21.4 a	3.60 bc 3.52 bc 3.61 b 3.37 d 3.49 c 3.60 bc 3.61 b 3.56 bc 3.75 a	0.87 ab .94 a .91 a .88 ab .83 b .94 a .81 b .82 b .64 c	14.6 c 18.0 a 14.9 c 16.5 b 15.2 c 12.6 d 13.3 d 15.7 bc 12.6 d	6.7 b 5.7 e 6.0 d 6.2 c 6.0 d 7.0 a 6.3 c 5.7 e 6.2 c
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 220	87.4 ef 84.7 f 89.1 e 85.7 f 100.2 bc 96.0 d 104.0 a 98.0 cd 101.7 ab	103.2 de 101.1 e 104.6 d 101.9 e 114.1 a 108.7 c 116.0 a 111.4 b 114.3 a	1.054 bc 1.042 de 1.068 a 1.035 e 1.062 ab 1.047 cd 1.038 de 1.039 de 1.063 a	2.1 a 1.4 a 1.8 a 2.4 a 1.6 a 2.2 a 2.6 a 2.3 a 1.2 a	9.2 cd 8.8 e 9.5 c 8.8 de 10.7 a 10.0 b 10.6 a 10.2 b 10.8 a

Table 38.--Western test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Phoenix, Ariz	21.7 a	3.66 b	0.92 b	15.7 a	5.8 c
Las Cruces, N. Mex.	21.5 a 19.8 b	3.18 d 3.85 a	.99 a .71 d	14.2 b 14.2 b	6.4 a 6.4 a
Yuma, Ariz					
El Paso, Tex	18.5 c	3.58 c	.77 c	15.2 a	6.1 b
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Phoenix, Ariz	93.0 ь	107.6 ь	1.062 a	2.0 ab	9.9 b
Las Cruces, N. Mex.	97.8 a	lll.l a	1.061 a	1.3 b	10.4 a
Yuma, Ariz	92.0 Ъ	106.8 ъ	1.035 c	2.4 a	9.4 c
El Paso, Tex	93.5 b	108.0 b	1.042 b	2.0 ab	9.7 b

Table 39.--Western test: Combined seed data for Yuma and Phoenix, Ariz., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	20.8	3.56	0.86	16.7	6.5
McNair 220	20.6	3.81	.82	14.8	6.5
Stoneville 213	19.0	3.73	•93	17.7	5.5
Coker 310	20.7	3.78	•92	14.7	6.0
Tamcot Sp 21	21.1	3.82	, 89	12.8	7.0
Paymaster 303	21.2	3.76	•76	15.6	5.5
Acala SJ-5	21.4	3.91	•60	12.5	6.0
Acala 1517-75	21.2	3.72	.79	13.7	6.2
Acala 1517-77	20.8	3.70	.77	15.6	6.2
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	80.9	98.1	1.041	1.9	8.4
McNair 220	86.2	102.4	1.055	2.6	9.1
Stoneville 213	83.4	100.1	1.044	1.5	8.7
Coker 310	91.1	106.2	1.077	1.1	9.8
Tamcot Sp 21	91.6	106.5	1.049	3.8	9.6
Paymaster 303	96.2	110.1	1.039	2.5	10.0
Acala SJ-5	100.8	113.6	1.055	1.4	10.6
Acala 1517-75	102.0	114.5	1.028	3.3	10.1
Acala 1517-77	100.4	113.3	1.048	2.1	10.5

Table 40.--Western test: Combined seed data for El Paso, Tex., and Las Cruces, N. Mex., by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	20.3	3.38	0.93	14.4	7.0
Acala 1517-77	19.5	3.29	.89	14.7	5.7
Stoneville 213	18.6	3.31	.96	18.3	6.0
Tamcot Sp 21	20.3	3.39	•99	12.4	7.0
Acala 1517-75	20.7	3.51	.83	12.8	6.5
Coker 310	19.8	3.44	•91	15.1	6.0
Acala SJ-5	21.3	3.59	.68	12.6	6.5
Paymaster 303	20.5	3.36	.87	15.8	6.0
Deltapine 61	19.0	3.19	• 90	16.3	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 220	88.5	104.1	1.053	1.6	9.3
Acala 1517-77	100.0	114.9	1.076	1.0	11.0
Stoneville 213	86.0	102.2	1.039	1.4	8.9
Tamcot Sp 21	100.5	110.8	1.044	0.6	10.5
Acala 1517-75	106.0	117.5	1.048	1.9	11.1
Coker 310	86.1	103.1	1.060	2.5	9.2
Acala SJ-5	102.7	115.0	1.072	1.0	11.0
Paymaster 303	99.7	112.8	1.039	2.1	10.3
Deltapine 61	90.4	105.6	1.030	3.0	9.3

Table 41.--Western test: Seed data for Las Cruces, N. Mex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	22.0	3.03	1.09	14.3	7.0
Acala 1517-77	21.5	3.17	•97	14.2	6.0
Coker 310	21.3	3.23	1.03	16.1	6.0
Tamcot Sp 21	21.6	3.08	1.07	12.0	7.0
Acala 1517-75	22.6	3.26	•98	12.0	7.0
Paymaster 303	22.1	3.25	.89	14.8	6.0
Stoneville 213	19.7	3.18	1.17	16.7	6.0
Deltapine 61	20.2	3.03	1.03	16.0	6.0
Acala SJ-5	22.7	3.44	• 74	11.7	7.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
McNair 220	93.2	107.8	1.054	1.5	9.8
Acala 1517-77	94.7	112.8	1.090	1.5	10.8
Coker 310	86.2	102.4	1.079	2.5	9.3
Tamcot Sp 21	105.7	112.3	1.050	0.0	11.1
Acala 1517-75	105.9	117.4	1.062	2.0	11.2
Paymaster 303	101.7	114.3	1.053	0.5	10.7
Stoneville 213	90.1	105.4	1.056	0.0	9.5
Deltapine 61	96.1	110.1	1.033	3.5	9.9
Acala SJ-5	107.0	118.2	1.074	0.5	11.5

Table 42.--Western test: Seed data for Phoenix, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	21.7	3.33	1.00	18.1	6.0
Stoneville 213	20.1	3.72	1.05	18.6	5.0
McNair 220	21.5	3.67	• 94	15.8	6.0
Tamcot Sp 21	22.1	3.76	1.01	13.7	7.0
Coker 310	21.5	3.70	1.00	15.8	6.0
Acala 1517-75	22.5	3.62	.98	13.7	6.0
Acala 1517-77	22.2	3.65	• 92	15.6	6.0
Paymaster 303	21.7	3.72	.75	16.1	5.0
Acala SJ-5	22.3	3.79	• 65	13.6	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	82.9	99.7	1.031	2.5	8.5
Stoneville 213	83.3	100.0	1.058	1.5	8.8
McNair 220	87.8	103.6	1.074	1.5	9.4
Tamcot Sp 21	89.5	104.9	1.061	2.8	9.5
Coker 310	95.3	109.4	1.038	1.8	9.9
Acala 1517-75	103.5	115.6	1.057	2.2	10.9
Acala 1517-77	100.8	113.6	1.066	2.8	10.7
Paymaster 303	99.0	112.2	1.045	2.2	10.3
raymaster JUJ					

Table 43.--Western test: Seed data for Yuma, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	18.0	3.75	0.81	16.7	6.0
Coker 310	20.0	3.87	•85	13.6	6.0
Deltapine 61	20.0	3.79	.73	15.4	7.0
McNair 220	19.8	3.95	.70	13.9	7.0
Paymaster 303	20.7	3.80	. 78	15.1	6.0
Acala SJ-5	20.6	4.04	•56	11.5	6.0
Tamcot Sp 21	20.2	3.89	.78	12.0	7.0
Acala 1517-77	19.4	3.75	•63	15.7	6.5
Acala 1517-75	19.9	3.82	• 60	13.7	6.5
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	83.5	100.2	1.031	1.5	8.6
Coker 310	89.8	105.2	1.066	0.5	9.5
Deltapine 61	79.0	96.6	1.050	1.2	8.3
McNair 220	84.7	101.1	1.036	3.8	8.7
Paymaster 303	93.4	107.9	1.032	2.8	9.6
Acala SJ-5	103.0	115.3	1.031	1.5	10.6
Tamcot Sp 21	93.7	108.2	1.038	4.8	9.7
Acala 1517-77	100.1	113.1	1.030	1.5	10.3
Acala 1517-75	100.6	113.4	1.000	4.3	9.3

Table 44.--Western test: Seed data for El Paso, Tex.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.6	3.44	0.75	19.9	6.0
McNair 220	18.5	3.74	.78	14.6	7.0
Acala SJ-5	19.9	3.74	• 63	13.5	6.0
Acala 1517-77	17.6	3.41	.81	15.2	5.5
Tamcot Sp 21	19.0	3.70	•92	12.9	7.0
Deltapine 61	17.8	3.36	.78	16.6	6.0
Acala 1517-75	18.9	3.76	.67	13.7	6.0
Coker 310	18.4	3.66	•79	14.0	6.0
Paymaster 303	18.9	3.47	. 86	16.7	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	82.0	99.0	1.023	2.8	8.5
McNair 220	83.9	100.5	1.053	1.8	8.8
Acala SJ-5	98.5	111.9	1.070	1.5	10.5
Acala 1517-77	105.4	117.1	1.063	0.5	11.2
Tamcot Sp 21	95.3	109.4	1.038	1.2	9.9
Deltapine 61	84.8	101.2	1.027	2.5	8.7
Acala 1517-75	106.1	117.6	1.035	1.8	11.0
Coker 310	88.1	103.8	1.041	2.5	9.1
Paymaster 303	97.8	111.4	1.026	3.8	10.0

Table 17.--Delta test: Seed data for Tunica, Miss.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	16.5	3.70	0.72	14.9	5.0
DES 24	16.5	3.89	.67	12.5	6.0
Deltapine 55	16.1	3.84	•63	13.0	6.0
DES 56	17.3	3.89	•58	11.9	6.0
Deltapine 61	17.2	3.69	. 49	12.3	7.0
Coker 310	18.2	3.80	•62	11.3	6.0
Stoneville 731N	15.6	3.71	• 59	13.6	6.0
Stoneville 256	16.0	3.77	.61	13.8	6.0
Rex 713	17.8	3.87	•55	10.3	7.0
Paymaster 303	18.4	3.84	•57	12.6	6.0
Acala SJ-5	19.2	4.02	• 50	10.7	6.0
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³ )	surface area (mm ² )	density (g/cm ³ )	(percent)	delinted- seed index
Stoneville 213	100.0	112.9	1.015	4.8	10.1
DES 24	104.1	116.0	1.041	3.2	10.8
Deltapine 55	94.2	108.6	1.020	4.8	9.6
DES 56	98.7	112.1	1.032	3.2	10.2
Deltapine 61	100.4	113.3	1.028	2.2	10.3
Coker 310	110.3	120.6	1.045	1.5	11.7
Stoneville 731N	95.9	109.8	1.007	10.8	9.6
Stoneville 256	95.8	109.8	1.011	9.8	9.7
Rex 713	114.3	123.5	.999	5.0	11.4
Paymaster 303	110.0	120.4	1.006	5.5	11.0
Acala SJ-5	112.5	122.2	1.069	2.2	12.0

Table 18.--Delta test: Seed data for Clarkedale, Ark.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	20.0	3.05	1.08	12.8	6.0
Deltapine 55	19.6	3.30	1.16	9.7	6.0
Stoneville 213	21.1	3.04	1.22	14.8	5.0
Coker 310	21.2	3.22	1.14	11.6	5.5
Paymaster 303	22.8	2.96	1.13	13.3	5.0
Stoneville 731N	20.2	3.11	1.11	13.8	5.0
Stoneville 256	20.3	3.06	1.15	12.7	6.0
DES 56	20.9	3.26	1.21	12.0	6.0
DES 24	19.9	3.37	1.14	13.1	6.0
Rex 713	22.8	2.87	1.11	11.2	7.0
Acala SJ-5	21.8	3.54	.96	9.2	5.0
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³ )	surface area (mm ² )	density (g/cm ³ )	(percent)	delinted- seed index
Deltapine 61	89.8	104.9	1.010	3.0	9.0
Deltapine 55	89.0	104.5	1.041	4.2	9.2
Stoneville 213	99.3	112.5	1.025	3.2	10.2
Coker 310	95.8	109.8	1.033	3.0	9.9
Paymaster 303	102.2	114.7	1.029	3.0	10.5
Stoneville 731N	92.5	107.3	1.039	3.5	9.6
Stoneville 256	92.9	107.6	1.010	7.2	9.4
DES 56	95.3	109.4	1.038	1.5	9.9
DES 24	97.9	111.4	1.019	3.8	9.9
Rex 713	105.9	117.4	1.019	3.5	10.8
Acala SJ-5	107.3	118.4	1.037	2.8	11.1

# SAN JOAQUIN VALLEY CONTINUOUS COTTON VARIETY TEST

Table 45.--San Joaquin test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2 Stoneville 213 Acala SJ-5 Paymaster 303 Coker 310	18.2 d 18.3 d 20.6 a 19.9 b	3.25 c 3.31 c 3.50 a 3.45 ab	1.14 a 1.26 a .82 b .92 b	17.8 a 17.1 a 13.1 d 15.1 c	3.5 c 4.8 b 5.6 a 5.5 ab
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Acala SJ-2 Stoneville 213 Acala SJ-5 Paymaster 303 Coker 310	116.4 a 96.9 c 112.1 b 109.5 b 96.5 c	125.1 a 110.7 c 121.9 ab 120.0 b 110.2 c	1.025 ab 1.016 b 1.036 a 1.002 c 1.030 ab	5.6 ab 8.7 a 3.3 b 8.5 a 8.8 a	11.9 a 9.8 c 11.6 a 10.9 b 9.9 c

Table 46.--San Joaquin test: Seed data by test location

Location	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
West Side Field					
Station, Calif	20.1 a	3.34 b	1.10 a	15.7 ab	5.4 a
Maricopa, Calif	19.8 a	3.42 a	1.12 a	15.5 b	4.8 b
Madera, Calif	17.7 b	3.39 ab	.93 b	16.3 a	4.8 b
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
West Side Field					
Station, Calif	102.7 ь	114.9 b	1.036 a	3.5 b	10.6 b
Maricopa, Calif	108.4 a	119.2 a	1.023 b	4.3 b	ll.l a
Madera, Calif	107.7 a	118.6 a	1.006 c	13.2 a	10.8 ab

Table 47.--San Joaquin test: Seed data for West Side Field Station (Five Points), Calif.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2	18.8	3.22	1.23	18.3	3.5
Acala SJ-5	21.5	3.43	•85	12.9	6.0
Stoneville 213	19.3	3.27	1.30	16.9	5.5
Paymaster 303	21.1	3.40	•95	14.5	6.0
Coker 310	19.9	3.40	1.14	15.8	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Acala SJ-2	115.4	124.4	1.044	1.8	12.0
Acala SJ-5	105.2	116.9	1.064	1.2	11.2
Stoneville 213	94.0	108.5	1.028	3.8	9.6
Paymaster 303	103.6	115.7	1.020	4.5	10.5
Coker 310	95.2	108.4	1.024	6.2	9.7

Table 48.--San Joaquin test: Seed data for Maricopa, Calif.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213 Acala SJ-2 Acala SJ-5 Coker 310 Paymaster 303	19.3 19.3 20.5 20.0 20.1	3.33 3.28 3.55 3.42 3.52	1.34 1.23 .87 1.22 .93	16.3 16.8 13.9 15.1 15.4	5.0 3.5 5.0 5.5 5.0
	Seed volume (mm ³ )	Seed surface area (mm²)	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213 Acala SJ-2 Acala SJ-5 Coker 310 Paymaster 303	97.0 119.5 116.3 99.6 109.8	110.7 127.3 125.0 112.7 120.3	1.030 1.023 1.018 1.039 1.008	4.0 2.8 2.8 6.3 5.8	10.0 12.2 11.8 10.3 11.0

# SAN JOAQUIN VALLEY CONTINUOUS COTTON VARIETY TEST

Table 45.--San Joaquin test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2 Stoneville 213 Acala SJ-5 Paymaster 303 Coker 310	18.2 d 18.3 d 20.6 a 19.9 b 19.1 c	3.25 c 3.31 c 3.50 a 3.45 ab 3.41 b	1.14 a 1.26 a .82 b .92 b 1.11 a	17.8 a 17.1 a 13.1 d 15.1 c 16.0 b	3.5 c 4.8 b 5.6 a 5.5 ab 5.5 ab
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Acala SJ-2 Stoneville 213 Acala SJ-5 Paymaster 303 Coker 310	116.4 a 96.9 c 112.1 b 109.5 b 96.5 c	125.1 a 110.7 c 121.9 ab 120.0 b 110.2 c	1.025 ab 1.016 b 1.036 a 1.002 c 1.030 ab	5.6 ab 8.7 a 3.3 b 8.5 a 8.8 a	11.9 a 9.8 c 11.6 a 10.9 b 9.9 c

Table 46.--San Joaquin test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
West Side Field Station, Calif Maricopa, Calif Madera, Calif	20.1 a 19.8 a 17.7 b	3.34 b 3.42 a 3.39 ab	1.10 a 1.12 a .93 b	15.7 ab 15.5 b 16.3 a	5.4 a 4.8 b 4.8 b
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
West Side Field Station, Calif Maricopa, Calif Madera, Calif	102.7 b 108.4 a 107.7 a	114.9 b 119.2 a 118.6 a	1.036 a 1.023 b 1.006 c	3.5 b 4.3 b 13.2 a	10.6 b 11.1 a 10.8 ab

Table 47.--San Joaquin test: Seed data for West Side Field Station (Five Points), Calif.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2	18.8 21.5	3.22 3.43	1.23	18.3 12.9	3.5 6.0
Stoneville 213	19.3	3.43	1.30	16.9	5.5
Paymaster 303	21.1	3.40	•95	14.5	6.0
Coker 310	19.9	3.40	1.14	15.8	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Acala SJ-2	115.4	124.4	1.044	1.8	12.0
Acala SJ-5	105.2	116.9	1.064	1.2	11.2
Stoneville 213	94.0	108.5	1.028	3.8	9.6
Paymaster 303	103.6	115.7	1.020	4.5	10.5
Coker 310	95.2	108.4	1.024	6.2	9.7

Table 48.--San Joaquin test: Seed data for Maricopa, Calif.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213 Acala SJ-2 Acala SJ-5 Coker 310 Paymaster 303	19.3 19.3 20.5 20.0 20.1	3.33 3.28 3.55 3.42 3.52	1.34 1.23 .87 1.22 .93	16.3 16.8 13.9 15.1 15.4	5.0 3.5 5.0 5.5 5.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213 Acala SJ-2 Acala SJ-5 Coker 310 Paymaster 303	97.0 119.5 116.3 99.6 109.8	110.7 127.3 125.0 112.7 120.3	1.030 1.023 1.018 1.039 1.008	4.0 2.8 2.8 6.3 5.8	10.0 12.2 11.8 10.3 11.0

Table 49.--San Joaquin test: Seed data for Madera, Calif.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Paymaster 303	18.4	3.44	0.83	15.4	5.5
Acala SJ-2	16.5	3.24	.96	18.2	3.5
Acala SJ-5 Coker 310	16.4 19.9 17.3	3.32 3.54 3.41	1.16 .74 .98	18.1 12.5 17.2	4.0 6.0 5.0
COREL DIO	17.5	J • +1	• > 0	17.2	<b>3.</b> 0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Paymaster 303	115.2	124.2	0.978	15.2	11.2
Acala SJ-2	114.3	123.6	1.007	12.2	11.5
Stoneville 213	99.7	112.8	•992	18.2	9.9
Acala SJ-5	114.8	123.9	1.027	6.0	11.7
Coker 310	94.7	108.7	1.027	14.0	9.7

# HIGH-QUALITY REGIONAL COTTON VARIETY TEST

Table 50.--High-quality test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 4601	20.9 cd 20.9 cd 19.3 f 21.9 ab 20.8 cd 18.4 g 22.5 a 18.8 fg 20.7 d 22.3 a 21.7 abc 19.5 ef 20.9 cd 20.3 de 21.1 bcd 20.8 cd	3.92 bcd 3.98 ab 3.74 de 3.88 bcde 3.93 bc 3.77 cde 4.14 a 3.73 e 3.93 bc 3.98 ab 3.97 ab 3.75 cde 3.93 bc 4.04 ab 3.86 bcde 3.99 ab	1.01 cde .84 fgh .89 defg 1.08 bc .53 i .96 cdef 1.17 ab .86 efgh .91 defg 1.26 a .80 gh 1.01 cde .99 cdef 1.05 bcd 1.03 bcd .73 h	18.2 a 17.6 ab 17.9 a 16.5 abcd 15.0 d 17.5 ab 14.6 de 17.6 ab 15.4 cd 14.9 d 16.5 abcd 17.1 abc 15.8 bcd 16.3 abcd 15.7 bcd 13.1 e	5.3 f 6.0 cd 5.3 f 6.0 cd 6.1 b 5.6 e 6.3 b 5.8 de 6.3 b 6.3 b 6.3 b 6.3 de 6.4 de 6.5 de 6.6 a 5.8 de 6.6 a 6.6 a 6.6 a
Acala SJ-5	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Coker 4601	84.6 h	109.7 ab		1.9 bcd 2.7 bcd 1.2 cd 3.0 bc 2.2 bcd 5.8 a 1.7 bcd	9.5 bcd 9.4 bcd 9.9 b 9.6 bcd 9.9 b 8.7 e 9.7 bcd 9.7 bcd 9.2 cde 9.7 bcd 9.8 bc 9.6 bcd 9.3 cd 10.8 a 9.2 de 9.7 bc

Table 51.--High-quality test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Florence, S. C Belle Mina, Ala Rohwer, Ark	20.8 b 19.5 c 21.7 a	3.30 b 4.18 a 4.24 a	1.03 a .83 c .97 b	17.3 a 16.8 a 14.5 b	5.6 c 5.8 b 6.5 a
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Florence, S. C Belle Mina, Ala Rohwer, Ark	82.8 c 86.1 b 101.3 a	99.6 c 102.5 b 113.9 a	1.095 a 1.091 a 1.043 b	1.8 a 2.2 a 2.6 a	9.0 c 9.3 b 10.5 a

Table 52.--High-quality test: Combined seed data for Florence, S. C. and Belle Mina, Ala., by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
PD 4548	21.4	3.79	0.95	17.0	6.5
Coker 4601	20.6	3.74	1.02	18.8	5.0
McNair 3150	20.5	3.82	•84	18.6	6.0
Coker 6118	20.0	3.78	• 55	15.5	6.0
Coker 310	20.3	3.73	•97	16.2	6.0
McNair 3151	18.7	3.58	<b>.</b> 85	18.8	5.0
Mo. 63-277-1B	21.9	3.92	1.11	15.7	6.0
PD 4585	21.0	3.68	.83	16.8	5.5
Stoneville 213	18.4	3.61	1.01	18.2	5.0
Deltapine 264	18.5	3.57	.86	18.3	5.5
Stoneville 1395	21.9	3.80	1.26	16.0	6.0
Stoneville 1434	19.2	3.69	• 90	17.6	6.0
PD 695	20.2	3.73	1.05	16.4	6.5
McNair 3034	20.2	3.78	• 94	17.5	6.5
Мо 63-277Ј	19.5	3.84	•98	17.6	5.2
Acala SJ-5	20.2	3.70	•71	13.9	6.0
	Seed volume	Seed surface	Seed density	Floaters (percent)	Acid- delinted-
	(mm ³ )	area (mm ² )	$(g/cm^3)$	(percent)	seed index
PD 4548	81.8	98.8	1.104	1.3	9.0
Coker 4601	78.1	95.7	1.140	1.9	8.9
McNair 3150	83.8	100.4	1.102	0.6	9.0
Coker 6118	84.4	100.9	1.124	0.9	9.5
Coker 310	81.3	98.4	1.112	0.4	9.0
McNair 3151	91.0	106.1	1.053	2.7	9.6
Mo. 63-277-1B	80.4	97.7	1.136	2.5	9.1
PD 4585	85.1	101.5	1.096	2.1	9.3
Stoneville 213	82.5	99.3	1.064	3.1	8.7
Deltapine 264	90.3	105.5	1.058	2.6	9.5
Stoneville 1395	88.5	104.2	1.073	2.6	9.4
Stoneville 1434	90.9	106.0	1.038	2.5	9.4
PD 695	76.0	94.1	1.100	0.9	8.3
McNair 3034	84.2	102.7	1.079	1.4	8.8
Mo 63-277J	89.8	105.1	1.117	1.6	10.0
Acala SJ-5	83.3	100.0	1.090	4.7	9.0

Table 53.--High-quality test: Seed data for Florence, S. C.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 4601	21.2	3.26	1.15	18.9	5.0
PD 4548	22.4	3.35	1.17	17.6	6.0
Coker 310	21.1	3.24	1.10	16.9	6.0
Coker 6118	20.7	3.35	• 59	15.8	6.0
Stoneville 1395	22.5	3.40	1.33	16.7	6.0
Mo. 63-277-1B	22.4	3.43	1.21	16.7	6.0
McNair 3034	20.6	3.38	1.07	15.9	6.0
McNair 3150	21.1	3.32	• 96	17.1	6.0
Stoneville 213	19.2	3.23	1.08	18.5	5.0
McNair 3151	19.9	3.14	• 95	19.4	5.0
PD 4585	22.0	3.34	.88	18.1	5.0
Stoneville 1434	19.9	3.20	1.02	18.0	6.0
PD 695	20.6	3.40	1.22	17.4	6.0
Deltapine 264	19.8	3.15	1.00	17.9	5.5
Mo 63-277J	19.6	3.51	1.07	18.2	5.0
Acala SJ-5	20.3	3.19	• 79	14.3	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Coker 4601	74.1	92.5	1.127	2.5	8.3
PD 4548	78.7	96.3	1.110	1.3	8.7
Coker 310	78.5	96.2	1.105	0.5	8.6
Coker 6118	83.5	100.2	1.116	0.8	9.3
Stoneville 1395	88.4	104.0	1.081	2.8	9.5
Mo. 63-277-1B	79.1	96.6	1.143	1.5	9.0
McNair 3034	82.1	99.1	1.083	1.2	8.9
McNair 3150	82.2	99.2	1.104	0.5	9.0
Stoneville 213	81.6	98.7	1.071	2.5	8.7
McNair 3151	88.9	104.5	1.043	2.7	9.3
PD 4585	82.5	99.4	1.100	1.8	9.0
Stoneville 1434	88.0	103.8	1.049	2.3	9.2
PD 695	74.8	93.1	1.107	0.5	8.2
Deltapine 264	86.0	102.2	1.070	1.2	9.2
Mo 63-277J	90.9	106.0	1.127	1.0	10.2
Acala SJ-5	86.0	102.2	1.074	5.5	9.2

Table 54.--High-quality test: Seed data for Belle Mina, Ala.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
PD 4548	20.3	4.23	0.96	16.3	6.0
Coker 6118	19.4	4.20	• 52	15.2	6.0
McNair 3150	19.9	4.31	.73	20.6	6.0
McNair 3151	17.5	4.01	.76	18.2	5.0
Stoneville 213	17.5	3.98	•95	18.0	5.0
Mo. 63-277-1B	21.3	4.42	1.02	14.7	6.0
Coker 4601	19.9	4.21	•90	18.6	5.0
Stoneville 1395	21.3	4.20	1.19	15.4	6.0
Coker 310	19.4	4.22	•85	15.6	6.0
Stoneville 1434	18.4	4.17	•75	17.3	6.0
PD 4585	20.1	4.36	.71	15.6	6.0
Deltapine 264	17.2	3.98	•73	18.7	5.5
McNair 3034	19.9	4.17	.81	19.2	7.0
Mo 63-277J	19.5	4.17	• 90	17.1	5.5
PD 695	19.9	4.05	.88	15.4	7.0
Acala SJ-5	20.1	4.20	• 64	13.5	6.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
PD 4548	84.9	101.3	1.099	1.2	9.3
Coker 6118	85.4	101.7	1.133	1.0	9.6
McNair 3150	85.4	101.7	1.099	0.8	8.9
McNair 3151	93.1	107.7	1.054	2.8	9.8
Stoneville 213	83.4	100.0	1.056	3.8	8.8
Mo. 63-277-1B	81.8	98.8	1.129	3.5	9.2
Coker 4601	82.1	99.0	1.154	1.4	9.4
Stoneville 1395	88.7	104.3	1.065	2.5	9.4
Coker 310	84.2	100.7	1.119	0.2	9.4
Stoneville 1434	93.8	108.2	1.026	2.8	9.6
PD 4585	87.8	103.6	1.093	2.5	9.6
		108.9	1.046	4.0	9.9
	94.6	10002			
Deltapine 264	94.6 86.2			1.5	8.7
Deltapine 264 McNair 3034	86.2	106.3	1.074	1.5 2.2	8.7 9.8
Deltapine 264				1.5 2.2 1.2	8.7 9.8 8.4

Table 55.--High-quality test: Seed data for Rohwer, Ark.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	18.4	4.11	0.86	15.9	7.0
McNair 3151	20.6	4.07	• 98	15.9	6.0
Stoneville 1434	20.3	3.89	1.25	16.0	6.0
McNair 3150	21.8	4.31	. 85	15.0	6.0
PD 4585	23.2	4.23	.82	15.8	6.0
Deltapine 264	19.4	4.05	. 87	16.2	6.5
Coker 310	21.5	4.34	.78	13.8	7.0
Coker 6118	22.4	4.25	• 49	14.1	6.5
Stoneville 1395	23.3	4.34	1.25	12.8	7.0
McNair 3034	22.1	4.24	1.09	12.4	7.0
Mo 63-277J	21.8	4.45	1.18	13.5	7.0
Coker 4601	21.5	4.29	• 98	17.0	6.0
PD 4548	23.0	4.07	1.13	15.4	6.0
Mo. 63-277-1B	23.7	4.56	1.28	12.4	7.0
Acala SJ-5	22.1	4.59	.76	11.5	7.0
PD 695	22.8	4.13	• 99	14.4	7.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	88.4	104.1	0.989	1.8	8.7
McNair 3151	103.5	115.6	1.026	2.8	10.6
Stoneville 1434	105.4	117.0	•959	12.2	10.1
McNair 3150	96.7	110.5	1.073	1.2	10.4
PD 4585	102.8	115.1	1.049	2.5	10.7
Deltapine 264	100.1	113.1	1.008	2.8	10.1
Coker 310	92.5	107.2	1.043	3.0	9.6
Coker 6118	102.4	114.7	1.064	0.2	10.9
Stoneville 1395	102.7	115.0	1.009	3.8	10.3
McNair 3034	99.5	112.6	1.036	2.2	10.3
Mo 63-277J	115.9	124.7	1.081	1.8	12.5
Coker 4601	102.9	115.2	1.061	1.0	10.9
PD 4548	100.3	113.2	1.071	2.5	10.7
Mo. 63-277-1B	97.8	111.3	1.111	0.8	10.8
Acala SJ-5	108.0	118.0	1.035	2.2	11.2
PD 695	101.8	114.3	1.069	1.0	10.8

### PIMA REGIONAL COTTON VARIETY TEST

Table 56.--Pima test: Seed data by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	22.0 f 23.0 bcd 23.0 bcd 22.7 de 23.8 a 22.3 ef 23.4 ab 23.3 abc 23.6 a 22.9 cd	3.42 a 3.38 ab 3.28 d 3.30 cd 3.37 abc 3.31 cd 3.31 bcd 3.39 a 3.40 a 3.42 a	0.95 de .93 e 1.11 b 1.03 c .96 de 1.01 cd .96 de 1.01 cd 1.32 a .83 f	6.0 b 5.1 d 5.4 cd 5.8 bc 5.8 bc 6.1 ab 6.3 ab 6.6 a 5.8 bc 5.8 bc	11.6 ef 13.2 a 12.7 b 12.0 c 12.1 c 11.8 d 11.7 de 11.5 f 11.8 d 12.1 c
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
P-39 P-34 E-11 P-37 Pima S-5 E-12 P-42 E-9 E-10 P-41	106.8 d 116.2 b 121.4 a 105.4 d 111.0 c 122.0 a 105.1 d 105.3 d 110.0 c 117.3 b	118.0 d 124.9 b 128.6 a 117.0 d 120.8 c 129.0 a 116.8 d 116.9 d 120.4 c 125.6 b	1.068 b 1.057 c 1.065 b 1.086 a 1.052 cd 1.044 e 1.048 de 1.081 a 1.083 a 1.043 e	2.4 b 2.3 b 1.3 c 2.0 bc 3.6 a 3.3 a 3.7 a 1.8 bc 1.9 bc 3.8 a	11.4 e 12.3 b 12.9 a 11.4 de 11.6 cd 12.7 a 11.0 f 11.4 e 11.9 c 12.2 b

Table 57.--Pima test: Seed data by test location

Location	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Safford (Layton),					
Ariz	25.0 a	2.94 f	1.17 a	5.3 d	12.2 b
Ariz	22.2 e	3.36 d	1.06 bc	5.3 d	12.2 b
Salome, Ariz	24.6 a	2.91 f	1.01 cd	6.1 bc	11.6 d
Wenden, Ariz Safford (Sta.),	22.0 e	3.54 b	.94 de	6.0 bc	11.7 d
Ariz	22.4 de	3.41 cd	.95 de	5.7 cd	12.1 b
Fabens, Tex	23.8 Ъ	3.25 e	1.05 c	6.1 bc	12.1 bc
Phoenix, Ariz Safford (Curtis),	22.7 cd	3.70 a	.94 de	6.9 a	12.1 bc
Ariz	23.1 c	3.44 c	1.12 ab	5.6 cd	11.9 c
El Paso, Tex	22.1 e	3.57 b	.96 de	6.3 d	12.2 b
Coolidge, Ariz	22.0 e	3.46 c	.90 e	6.4 ab	12.4 a
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Safford (Layton),					
Ariz	112.6 ab	122.2 ab	1.070 bc	2.4 c	12.0 abc
Ariz	113.0 ab	122.5 ab	1.077 ab	1.4 d	12.1 ab
Salome, Ariz	110.9 c	113.3 с	1.074 ab	2.4 c	10.8 d
Wenden, Ariz Safford (Sta.),	112.9 ab	122.5 ab	1.071 bc	1.6 d	12.1 abc
Ariz	115.0 a	124.0 a	1.047 e	3.3 ab	12.0 abc
Fabens, Tex	114.4 a	123.5 a	1.040 e	4.0 a	11.9 bc
Phoenix, Ariz Safford (Curtis),	113.5 a	122.9 ab	1.080 a	2.8 bc	12.2 a
Ariz	110.7 b	120.9 в	1.066 c	2.9 bc	11.8 c
El Paso, Tex	113.0 ab	122.6 ab	1.054 d	2.6 bc	11.9 bc
El raso, lex.					

Table 58.--Pima test: Combined seed data for Phoenix, Coolidge, Marana, Salome, and Wenden, Ariz., by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	21.8	3.44	0.92	6.1	11.5
P-34	22.9	3.36	•91	5.3	13.4
P-42	23.2	3.32	•90	6.8	11.5
Pima S-5	23.6	3.34	• 94	6.2	12.2
P-37	22.3	3.35	• 98	6.0	12.0
P-41	22.7	3.45	.79	5.9	12.1
E-11	22.5	3.38	1.07	4.7	12.6
E-9	23.0	3.40	• 94	7.0	11.4
E-12	21.7	3.42	•94	6.5	11.7
E-10	23.2	3.46	1.31	6.0	11.7
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
P-39	105.7	117.2	1.076	1.7	11.3
P-34	113.9	123.3	1.064	1.8	12.1
P-42	103.5	115.6	1.054	3.2	10.9
Pima S-5	111.0	120.5	1.063	3.0	11.8
P-37	104.9	116.7	1.091	2.2	11.4
P-41	115.4	124.3	1.055	3.1	12.2
E-11	121.7	128.8	1.068	0.7	13.0
E-9	104.3	116.1	1.086	1.5	11.3
E-12	121.9	128.9	1.045	2.9	12.7
E-10	107.6	118.6	1.092	2.1	11.7

Table 59.--Pima test: Combined seed data for El Paso and Fabens, Tex., and Safford, Ariz. (Station, Curtis and Layton farms), by cotton variety

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
E-11	23.4 23.1 22.1 22.9 23.6 23.9 23.1 24.0	3.18 3.40 3.40 3.19 3.38 3.34 3.25 3.41	1.14 .96 .97 1.08 1.09 1.34 1.07	5.1 5.5 6.0 5.7 6.2 5.6 5.6	12.8 12.0 11.7 12.0 11.6 12.0 12.1 12.0
P-42	23.7 23.0 Seed volume (mm ³ )	3.31 3.38 Seed surface area (mm ² )	1.01 .88 Seed density (g/cm ³ )	5.8 5.7 Floaters (percent)	11.9 12.2 Acid- delinted- seed index
E-11	121.0 118.5 107.9 112.0 106.4 112.6 105.9 111.0 106.8 119.1	128.3 126.6 118.8 129.0 117.8 122.3 117.4 121.2 118.0 126.9	1.062 1.049 1.059 1.044 1.076 1.074 1.081 1.041 1.042	2.0 1.9 3.1 3.8 2.2 1.8 1.9 4.2 4.3	12.9 12.4 11.4 12.7 11.4 12.1 11.5 11.1

Table 60.--Pima test: Seed data for Safford, Ariz. (Layton farm)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	24.3	3.04	1.13	5.2	12.0
P-34	24.8	3.04	1.04	5.1	13.0
P-37	24.3	2.97	1.20	6.0	12.0
E-9	25.1	2.91	1.25	5.6	12.0
E-11	24.6	2.75	1.18	5.3	12.5
E-12	24.1	2.83	1.17	4.2	12.0
Pima S-5	26.3	3.01	1.13	6.0	12.0
P-42	25.9	2.98	1.11	5.5	12.0
E-10	25.9	2.90	1.50	5.3	12.0
P-41	25.0	3.11	• 98	4.8	12.5
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
P-39	104.7	116.5	1.081	3.2	11.3
P-34	116.7	125.3	1.055	3.0	13.2
P-37	102.6	115.0	1.096	1.2	11.2
E-9	101.3	113.9	1.092	1.0	11.0
E-11	119.8	127.5	1.068	2.0	12.8
E-12	125.9	131.1	1.051	2.8	13.1
Pima S-5	107.0	118.2	1.059	4.2	11.3
P-42	107.6	118.7	1.063	2.2	11.4
E-10	111.9	121.8	1.085	0.5	12.1
P-41	129.5	134.3	1.054	3.5	13.6

Table 61.--Pima test: Seed data for Wenden, Ariz.

Variety	0i1 (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39 Pima S-5 P-42 P-34 P-41 E-9 E-10 P-37 E-12 E-11	21.4 22.6 22.8 21.8 23.1 22.1 22.8 21.4 20.9 21.9	3.62 3.51 3.36 3.55 3.54 3.57 3.59 3.56 3.60 3.55	0.89 .77 .84 .79 .80 1.06 1.37 .82 1.00	6.0 5.3 6.6 4.7 6.3 6.8 6.0 6.0 7.0	11.0 12.0 11.0 13.0 12.0 11.5 12.0 11.5
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
P-39 Pima S-5 P-42 P-34 P-41 E-9 E-10 P-37 E-12 E-11	106.3 114.3 102.4 113.1 115.2 107.8 112.6 106.1 124.6 127.3	117.7 123.5 114.8 122.6 124.2 118.8 122.3 117.6 130.9 132.8	1.079 1.057 1.053 1.065 1.062 1.090 1.085 1.106 1.047	2.0 1.8 2.8 1.0 2.2 0.5 0.8 1.5 3.0 0.5	11.4 12.1 10.8 12.0 12.3 11.7 12.2 11.7 12.9

Table 62.--Pima test: Seed data for Marana, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	21.3	3.35	1.04	5.3	12.0
E-11	22.0	3.23	1.26	4.2	13.0
P-34	22.0	3.33	•97	4.8	13.0
P-37	22.0	3.31	1.12	6.0	12.0
E-12	22.1	3.35	1.09	4.6	12.0
P-42	22.7	3.37	• 97	6.4	12.0
Pima S-5	23.1	3.37	•96	6.1	12.0
E-9	22.6	3.40	• 98	6.2	12.0
E-10	22.6	3.35	1.45	4.8	12.0
P-41	21.7	3.52	.82	4.7	12.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
P-39	107.7	118.7	1.099	0.5	11.8
E-11	119.6	127.4	1.080	0.2	13.0
P-34	115.7	124.5	1.056	1.5	12.2
P-37	107.5	118.6	1.094	0.8	11.7
E-12	125.7	131.6	1.063	1.8	13.3
P-42	106.0	117.4	1.056	2.8	11.2
Pima S-5	115.4	124.3	1.067	1.8	12.3
E-9	107.5	118.5	1.089	0.2	11.7
E-10	108.7	119.5	1.109	1.2	12.0
P-41	116.1	124.8	1.057	3.2	12.2

Table 63.--Pima test: Seed data for Salome, Ariz.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Pima S-5	25.8	2.91	1.02	6.2	12.0
P-39	23.7	3.06	•92	6.6	11.0
P-34	24.5	3.01	•94	5.4	13.0
E-9	25.0	2.73	•92	7.0	11.0
E-12	24.0	2.86	1.01	7.2	11.0
E-11	24.7	2.77	1.13	5.5	12.0
E-10	25.1	2.90	1.27	6.3	11.0
P-42	24.8	2.97	•91	6.3	11.0
P-41	25.2	2.89	.89	4.9	12.0
P-37	23.4	2.99	1.08	5.9	12.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
Pima S-5	98.8	109.6	1.080	3.8	10.7
P-39	98.2	111.6	1.083	1.8	10.6
P-34	107.2	118.4	1.071	1.5	11.4
E-9	90.5	105.7	1.099	1.5	9.9
E-12	108.2	119.1	1.049	2.5	11.3
E-11	114.9	124.0	1.054	0.8	12.1
E-10	100.4	113.3	1.077	2.2	10.8
P-42	92.9	107.5	1.064	3.5	9.9
P-41	102.4	114.8	1.069	3.8	10.9
P-37	95.5	109.6	1.091	2.2	10.4

Table 64.--Pima test: Seed data for Phoenix, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-42	23.5	3.54	0.95	7.6	11.5
P-34	23.5	3.46	•91	5.8	14.0
P-39	21.7	3.61	.87	6.6	11.5
P-41	22.0	3.73	• 75	7.3	12.0
P-37	23.0	3.49	•95	6.4	12.0
Pima S-5	23.2	3.63	1.02	6.6	12.0
E-9	23.1	3.89	.89	8.0	11.0
E-11	22.7	3.92	1.05	6.7	13.0
E-12	21.4	3.82	.83	6.9	12.0
E-10	23.1	3.97	1.23	6.6	12.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
P-42	104.1	116.0	1.066	4.0	11.1
P-34	116.1	124.8	1.068	3.0	12.4
P-39	107.1	118.3	1.066	2.8	11.4
P-41	119.6	127.3	1.057	3.5	12.6
P-37	109.3	119.9	1.081	3.8	11.8
Pima S-5	115.0	124.0	1.065	2.8	12.2
E-9	107.5	118.5	1.097	1.8	11.8
E-11	123.2	129.9	1.100	0.8	13.5
E-12	127.4	132.8	1.068	3.0	13.6
			1.138	2.8	11.8

Table 65.--Pima test: Seed data for Fabens, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-34	24.1	3.25	0.99	5.3	13.0
E-11	24.2	3.21	1.23	5.3	13.0
P-39	21.3	3.38	.86	6.8	11.5
E-9	24.3	3.38	1.16	6.6	11.5
P-37	24.5	3.11	1.05	5.6	12.0
E-10	24.9	3.13	1.32	6.0	12.0
P-41	23.2	3.34	•86	5.9	12.0
Pima S-5	24.2	3.36	. 99	6.5	12.0
E-12	24.4	3.02	1.10	6.7	12.0
P-42	23.3	3.31	• 96	6.0	12.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
P-34	122.2	129.2	1.035	3.2	12.6
E-11	127.4	132.8	1.066	1.5	13.6
P-39	113.2	122.7	1.031	4.5	11.6
E-9	114.5	123.7	1.069	2.8	12.2
P-37	103.5	115.7	1.070	2.0	11.0
E-10	114.0	123.3	1.064	2.0	12.1
P-41	116.7	125.3	1.002	6.0	11.7
Pima S-5	115.0	124.0	1.017	6.5	11.7
E-12	115.5	124.4	1.036	5.8	11.9
P-42	101.6	114.2	1.015	5.5	10.3

Table 66.--Pima test: Seed data for Safford, Ariz. (Station)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
E-11	23.0	3.20 3.53	1.06	5.4 5.1	13.0 13.0
P-34 E-10	22.5	3.35	1.18	5.1	12.0
	21.7	3.48	•92	6.5	12.0
	21.9	3.23	•97	6.2	12.0
E-12	22.8	3.54	•92	5.7	12.0
	22.1	3.43	•94	5.8	12.0
P-37	23.1	3.36	.88	5.4	13.0
E-9	22.8	3.47	1.00	5.9	11.0
P-41	22.2	3.49	.78	5.6	12.5
1-41	<b>∠∠ •</b> ∠	J • 47	• 70	J•0	12.5
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
E-11	118.4	126.5	1.046	3.0	12.4
P-34	119.1	127.0	1.046	3.0	12.4
E-10	113.5	122.9	1.051	2.5	11.9
P-39	109.4	120.0	1.051	2.2	11.5
E-12	124.2	130.5	1.021	4.5	12.7
Pima S-5	114.5	123.7	1.034	4.2	11.8
P-37	113.3	122.8	1.071	3.5	11.8
P-42	111.2	121.3	1.042	4.2	11.6
E-9	106.4	117.8	1.069	2.5	11.3

Table 67.--Pima test: Seed data for Safford, Ariz. (Curtis Farm)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
E-12 E-11 P-39 E-10 E-9 P-34 P-37 P-42 Pima S-5 P-41	22.3 23.1 22.4 23.8 23.0 23.0 23.0 22.7 23.9 24.0 23.0	3.40 3.28 3.53 3.55 3.46 3.51 3.30 3.42 3.51 3.47	1.09 1.20 1.11 1.44 1.06 1.01 1.19 1.14 1.07	5.2 5.3 5.9 5.6 7.0 4.2 5.6 7.1 4.3 6.1	12.0 12.5 11.0 12.0 11.5 13.0 12.0 11.5 12.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
E-12 E-11 P-39 E-10 E-9 P-34 P-37 P-42 Pima S-5 P-41	125.1 117.4 109.0 112.1 100.6 114.7 105.0 103.0 108.2 112.4	131.2 125.7 119.6 121.9 113.4 123.8 116.8 115.2 119.1 122.2	1.049 1.071 1.073 1.090 1.071 1.054 1.089 1.063 1.063	3.5 1.5 3.5 1.5 3.2 3.0 1.2 4.0 2.2 5.5	13.1 12.5 11.7 12.2 10.7 12.1 11.4 10.9 11.5

Table 68.--Pima test: Seed data for El Paso, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
E-11	22.2	3.44	1.06	4.4	13.0
E-12	21.9	3.50	1.07	6.0	12.0
P-34	21.6	3.69	.87	5.1	13.0
E-10	22.7	3.77	1.26	5.9	12.0
E-9	23.0	3.67	•97	5.9	12.0
P-37	22.2	3.47	• 98	4.7	12.5
P-39	21.0	3.59	.82	5.4	12.0
Pima S-5	22.7	3.64	.82	4.8	12.0
P-41	21.9	3.50	.83	6.0	12.0
P-42	22.3	3.48	1.00	4.6	12.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
E-11	122.3	129.3	1.060	1.8	12.9
E-12	120.5	128.0	1.062	2.2	12.8
P-34	120.0	127.6	1.056	2.0	12.6
E-10	110.5	120.8	1.089	2.5	12.0
E-9	109.5	120.0	1.078	1.2	11.8
P-37	105.1	116.9	1.081	1.5	11.3
P-39	103.1	115.3	1.058	2.0	10.9
Pima S-5	110.5	120.8	1.035	3.8	11.4
P-41	116.7	125.3	1.018	4.0	11.9
P-42	110.6	120.8	1.027	5.2	11.5

Table 69.--Pima test: Seed data for Coolidge, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-42 P-39 E-11 P-34 P-37 Pima S-5 P-41 E-12 E-9 E-10	22.4 21.2 21.5 22.8 22.0 23.5 21.7 20.1 22.3 22.6	3.38 3.59 3.43 3.47 3.41 3.29 3.59 3.47 3.44 3.50	0.85 .91 .85 .97 .96 .91 .72 .89 .85	7.3 6.2 6.1 5.8 5.8 6.6 6.3 6.9 7.0 6.4	12.0 12.0 13.0 14.0 12.0 13.0 12.5 12.0 12.0
	Seed volume (mm ³ )	Seed surface area (mm ² )	Seed density (g/cm ³ )	Floaters (percent)	Acid- delinted- seed index
P-42 P-39 E-11 P-34 P-37 Pima S-5 P-41 E-12 E-9 E-10	112.4 109.2 123.7 117.8 106.4 111.3 124.0 123.8 108.2 110.2	122.2 119.9 130.2 126.0 117.8 121.3 130.4 130.3 119.1	1.035 1.056 1.038 1.063 1.083 1.040 1.034 .999 1.059	3.0 1.5 1.0 2.0 2.5 5.0 2.5 4.0 3.2 3.2	11.6 11.5 12.8 12.5 11.5 11.5 12.8 12.3 11.4

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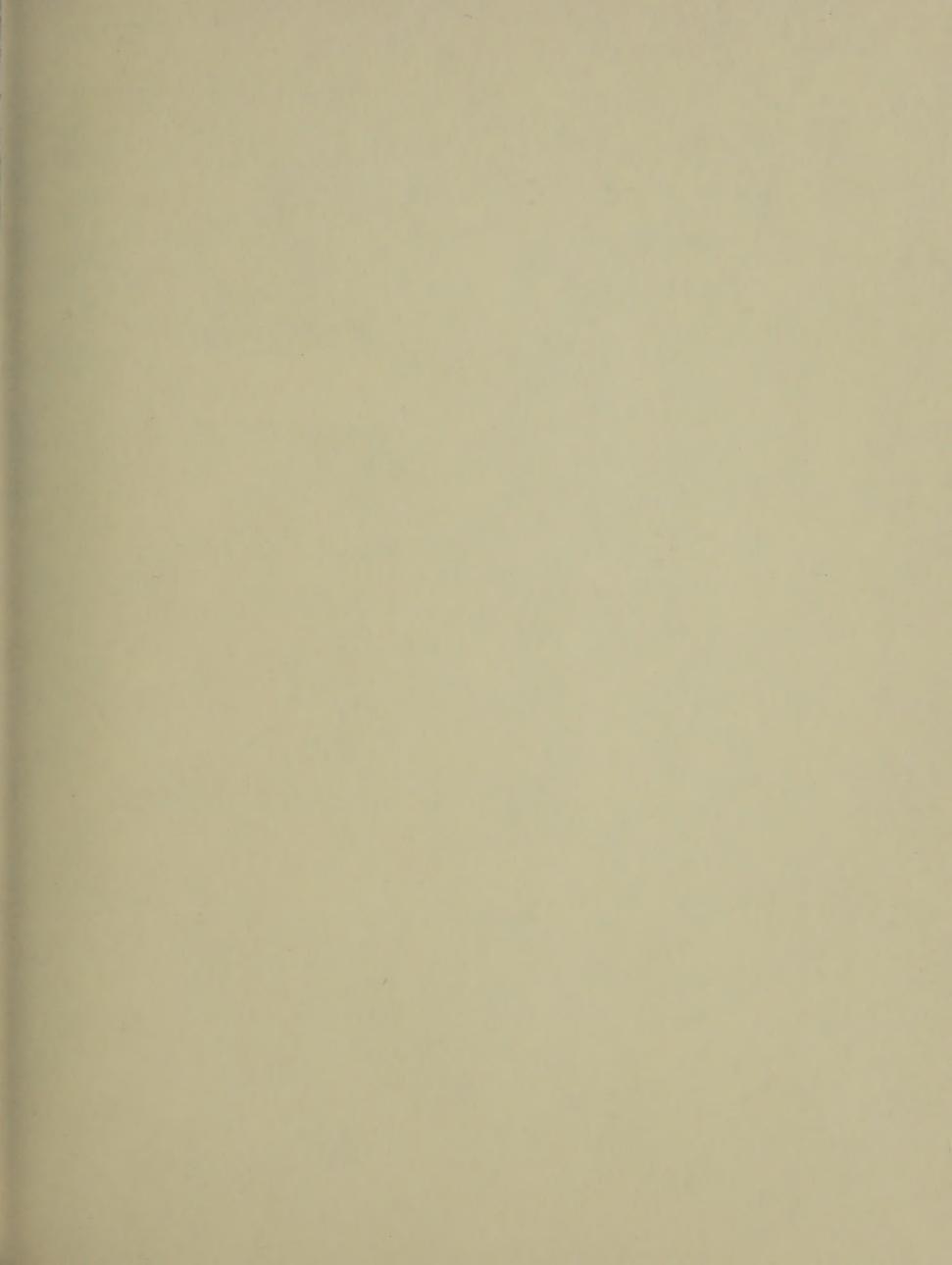
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